

Job Specifications as at 13 May 2021 (Second Round)

List of Companies:

Note: Companies/vacancies highlighted in grey have already received many more applications than the number of vacancies.

- Aerovision Technology Limited
- Anima Technologies Limited
- Ark Space Limited
- AXA General Insurance Hong Kong Limited
- Big Dipper Studio Limited
- Brandnographer Co. Ltd.
- Cherrypicks
- Classroom Stem Education
- Compass Technology Co. Ltd
- Conard International (Hong Kong) Limited
- Forida Limited
- **Freetech Road Recycling Technology (Holdings) Limited (newly added)**
- **iAsia Online Systems Limited**
- Innopage Limited
- Integrated Solutions Limited
- Kagile Solutions Limited
- Karta-X Technologies Limited
- **Lexiwave Technology Limited**
- m-Chinese Solution Limited
- m-Labs Limited
- Mindlayer Limited
- Nexstgo Company Limited
- OliveX (HK) Ltd
- **Oursky Limited**
- **Quokka Hong Kong Limited**
- Prister Corporation Limited

- RPA (HK) Ltd.
- SenseTime
- Simply Solution HK Limited
- Smart Mobility Limited
- Solos Technology Limited
- Sportopia Limited
- Suga International Holdings Limited
- UCode
- Weavertools Limited

<i>Post Code</i>	<i>No. of Interns required:</i>	<i>Internship Duration</i>	<i>Post / Project Title</i>	<i>Job descriptions</i>	<i>Company</i>
AEROV-01	1	12 months	Smart Security Surveillance System	<p>Job Descriptions:</p> <ul style="list-style-type: none"> • Assist in the design and development of machine learning models • Work closely with project tem; Assist in preparing technical proposal for business partners • Assist in updating the company’s data library • Research in specific AL algorithms under the guidance of supervisors <p>Requirements:</p> <ul style="list-style-type: none"> • Studying degree in Computer Science/ Information System/ Engineering or related disciplines • Programming Languages: Python, C++/C, Java • Deep Learning Frameworks: Tensorflow, Pytorch, YOLO, OpenCV, etc • Experience in data collecting, COCO, PASCAL VOC, etc, is a plus • Experience in using Linux system or data visualization is a plus • Interested in machine learning and data analytics • Fluent in English, Cantonese and Mandarin • Innovative and strong analytical problem-solving Skills • Good team player, energetic and self-motivated individual 	Aerovision Technology Limited
ANIMA-01	1	8 months	Web Application Development	<p>Job Descriptions:</p> <p>To develop interactive web applications for mobile devices and/or kiosks.</p>	Animae Technologies Limited

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				<p>Requirements: Experience in Java/JavaScript framework will be an advantage.</p> <p>Student can learn and get hands-on experience on interactive web application development using MERN stack.</p>	
ARKSP-01	2	8 or 12 months	<p>Junior Developer</p> <p>Training scholarships or allowances: not less than HK\$8,000 per months</p>	<p>Responsible for systems development involves programming, testing from unit test to fully integrated testing; Prepare system documents, including functional specification, technical specification, user manual, user training and etc.</p> <p>Technical skills required: JAVA/.NET, HTML5, Python, SQL or other programming languages Cloud (AWS / Azure / Alibaba)"</p>	<p>Ark Space Limited https://www.arkspace.com.hk</p>
AXA-01	1 - 2	8 or 12 months	<p>Data Science Intern</p> <p>Training scholarship or allowances: HK\$8,000 - 10,000 per month</p>	<p>Job description:</p> <ul style="list-style-type: none"> Assist in collecting data, analyzing data, and present the data results in business context Support team to perform programming (Python/R/SAS/ SQL) on daily DataMart construction and Database management Participate in departmental meetings Assist in Data Modeling and Reporting tasks Research on new machine learning technology, cloud solution, and contest award submission support Provide data science support for ad hoc projects and campaign launch <p>Technical skills required:</p> <ul style="list-style-type: none"> Python and SQL are must. R is optional. Machine Learning skill is a must. Cloud experience (Azure) is an advantage. BI tool (Power BI / Tableau) skills are appreciated. 	<p>AXA General Insurance Hong Kong Limited axa.com.hk</p>
BIGDIP-01	2	8 or 12 months	<p>Web Programmer</p>	<p>Job Responsibilities:</p> <ul style="list-style-type: none"> Programming in mobile, web and database systems according to lead programmers 	<p>Big Dipper Studio Limited</p>

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			Training scholarship or allowances: HK\$8,000 - 10,000 per month	<ul style="list-style-type: none"> Research, develop and implement new and innovative devices <p>Job Requirements:</p> <ul style="list-style-type: none"> Degree or Diploma in Computer Science or equivalent; Good understanding of mobile, web or software application development; Proficient in programming environment of PHP, JavaScript, ASP.NET, XML/XSL or VB.NET; Knowledge in Unity, iOS, Android SDK, Java, C# is a bonus Self-motivated, open-minded, hardworking, willing to learn and a good team player Strong problem-solving skills and responsible Eager to learn and share knowledge and experience with other team members 	
BIGDIP-02	2	8 or 12 months	Game Developer	<p>Job Responsibilities:</p> <ul style="list-style-type: none"> Programming for mobile, web and desktop environment according to lead programmers Research, develop and implement new and innovative devices <p>Job Requirements:</p> <ul style="list-style-type: none"> Degree or Diploma in Computer Science or equivalent; Good understanding of mobile, web or software application development; Proficient in programming environment of Unity, iOS, Android SDK, Java, C#; Knowledge in PHP, JavaScript, ASP.NET, XML/XSL or VB.NET is a bonus Self-motivated, open-minded, hardworking, willing to learn and a good team player Strong problem-solving skills and responsible Eager to learn and share knowledge and experience with other team members 	Big Dipper Studio Limited
BIGDIP-03	1	8 or 12 months	Designer	<p>Job Responsibilities:</p> <ul style="list-style-type: none"> Create sketches, layouts, graphics and interfaces according to the Project Manager Work closely with programmers incorporating visuals to program <p>Job Requirements:</p> <ul style="list-style-type: none"> Degree/Diploma holder in multimedia design Passion on 3D modeling and interactive design Knowledge in 3DS Max/Maya is a must Knowledge in Illustrator, Photoshop and Flash is a bonus Highly motivated and good organizational skills Mature, dynamic and able to work under pressure 	Big Dipper Studio Limited

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BRAND-01	1	8 or 12 months	Full stack developer Training scholarships or allowances: not less than HK\$8,000 per months	<p>What we need: We are looking for a full-stack developer who can handle frontend and backend development of a mobile application.</p> <p>The right candidate should be comfortable at both the application coding and UI creation based on design and UX team specifications.</p> <p>ESSENTIAL DUTIES AND RESPONSIBILITIES:</p> <ul style="list-style-type: none"> • 1+ years of iOS & XCode development experience • Must be able to build production quality applications • Passionate about mobile application design, UX and best practices • Provide solution architecture and detailed designs in software backend • Setup and maintain environment for software applications and backend • Follow the development process and improve code for backend stability • Fine-tune execution for new API / SDK, write documents and design features • Manage SQL and related communications/interactions • Excellent written and verbal communication skills required <p>JOB REQUIREMENTS:</p> <ul style="list-style-type: none"> • Open source contributions and public repos on GitHub • Experience in React Native and Flutter • Proven portfolio in development (Mobile app) • Experience in Ruby on Rails and writing well-structured code • Knowledge on AWS, UI/UX techniques and REST based API • Experience on iOS / Android/ API platform 	Brandnographer Co. Ltd. www.brandnographer.com
CHERRY-01	1	8 or 12 months	DevOps Engineer Training scholarship or allowances: not less than HK\$8,000 per month	<p>We are seeking a well-motivated person with solid DevOps principles and Infrastructure as code concepts to play a role in our DevOps team. As a DevOps Engineer, you'll responsible for designing, developing, maintaining and operating highly engaging products and solutions that will fuel our growth as a market leading company. You will work directly with professional technical team across the organization to realize the DevOps vision.</p> <p>Job description:</p> <ul style="list-style-type: none"> • Assist in integrating and building automation tools for solutions development 	Cherrypicks www.cherrypicks.com

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				<ul style="list-style-type: none"> • Work with a DevOps team and maintain tools for deployment, monitoring, and operations • To ensure continuous delivery with high reliability and operational performance to meet SLAs • To deliver professional services ranging from server platforms, virtualization solutions, backup and recovery to storage system solutions • Support installation and maintenance of computer & network connectivity • Perform routine maintenance, installation, commissioning, performance adjustment, analyst, and software upgrade of client computer, networking equipment, and file server • Provide helpdesk and desktide end-user IT support and troubleshooting, as well as handle server troubleshooting and Active Directory administration <p>Job requirement:</p> <ul style="list-style-type: none"> • Study in Computer Science, Electrical Engineering, Information Technology or related disciplines • Knowledge in Cloud platform (Azure, AWS or Aliyun) will be advantages • Experience of working with Continuous Integration, Continuous Delivery and continuous testing tools will be advantages • Good interpersonal and communication skills, self-motivated, detail minded and result oriented • Able to work independently 	
Class-01	2 - 3	8 months	<p>STEAM Education Specialist</p> <p>Training scholarship or allowances: not less than HK\$8,000 per month</p>	<p>Looking to do something meaningful in between your university years? We have been a hub for students, parents and teachers for all things CS, STEAM and 21st century learning skills.</p> <p>CLASSROOM is pleased to offer internship opportunities for anyone who want to contribute to the community and develop themselves. We have plenty of opportunities but limited hands to reach out to the community.</p> <p>You would need to:</p> <ul style="list-style-type: none"> • Assist CLASSROOM STEAM Team to develop education products and programmes. • Assist and run programmes for the community. • Engage with students as part of our school outreach programmes. <p>Technical skills required:</p>	<p>Classroom</p> <p>www.classroom.com.hk</p> <p>www.classroomeshop.com</p>

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				<ul style="list-style-type: none"> Google Suite for Education (Google Workspace for Education) Block-based programming (Scratch, Makecode, mBlock), Text-based programming (Python, JavaScript), App Development (AppInventor, Thinkable) IFTTT, ThingSpeak, MS Azure, TensorFlow <p>iv. Number of internship openings to be offered: 2-3 suitable candidates</p>	
COMP-01	1 - 2	12 months	<p>Development of integrated battery for wearable electronics</p> <p>Training scholarship or allowances: HK\$8,000 per month</p>	<p>Job description:</p> <ul style="list-style-type: none"> To coordinate/perform process characterization & data analysis, reporting to the project leader <p>Technical skills required: programming languages; software proficiency; technical writing; data analysis; artificial intelligence</p>	<p>Compass Technology Co., Ltd. www.cgth.com</p>
COMP-02	1 - 2	12 months	<p>Development of next generation of photonics devices with the flexible printed circuits</p> <p>Training scholarship or allowances: HK\$8,000 per month</p>	<p>Job description:</p> <ul style="list-style-type: none"> To coordinate/perform process characterization & data analysis, reporting to the project leader <p>Technical skills required: programming languages; software proficiency; technical writing; data analysis; artificial intelligence</p>	<p>Compass Technology Co., Ltd. www.cgth.com</p>
CONAR D-01	2	8 or 12 months	NLP Engineer	<p>Feature Based topic modelling and sentiment analysis for ecommerce review by NLP</p> <p>Technical skills required:</p>	<p>Conard International (Hong Kong) Limited www.super-chain.tech</p>

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			Training scholarship or allowances: not less than HK\$8,000 per month	<ul style="list-style-type: none"> Involve in designing and integration of the upcoming Data Analysis and Machine Learning module Design and develop advanced algorithms and predictive models to achieve optimal data and insight generation Work with stakeholders throughout the company to identify opportunities for leveraging company data to drive business solutions Provide knowledge and insights in algorithm design, data modeling, machine learning and quantitative analysis for the development team as the domain expertise Develop processes and tools to monitor and analyze model performance and data accuracy" 	
FORID-01	2 - 3	8 or 12 months	<p>Construction Cloud implementation</p> <p>Training scholarship or allowances: HK\$8,000/month for 8 months internship; HK\$10,000/month for 12 months internship</p>	<p>Project Description: The construction industry needs better solutions. Ways to seamlessly connect data all the way from the earliest phases of design, through planning and construction, and long into the operations phase. Builders also need better information in order to connect with the right partners, building relationships that will deliver high-quality work with minimal drama. This project to study the need of the industry and currently available solutions, find and then fill the gap.</p> <p>Technical skills required: Programming languages; Softwre proficiency; Technical writing; Data Analysis; Artificial Intelligence</p>	FORIDA Limited https://www.forida.com.hk/
FREETE-01	2	8 or 12 months	Training scholarship or allowances: not less than HK\$8,000 per month	<p>Company Overview Freetech, a public-listed company in HK, is an integrated service provider for pavement industry using our own environmental-friendly technologies. After 30 years development, our business now includes equipment manufacturing, service contracting, research and consultation as well as training. To cope with our fast development in pavement data surveying equipment, we are looking for high caliber students to participate our projects in 2021/2022.</p> <p>Job description:</p>	Freetech Road Recycling Technology (Holdings) Limited http://www.freetechrme.com.hk

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				<p>1、 Participate in the programming, hardware design & setup of the project of data collection by a 3D pavement scanning vehicle</p> <p>2、 Participate in the hardware setup and programming of the project of pavement defect AI recognition by vehicle front camera</p> <p>Requirements:</p> <ul style="list-style-type: none"> - Familiar with programming using C#, Python - Familiar with computer hardware - Active, initiative and good team working - Experience in machine vision, AI is preferred - Experience in data acquisition and integration of sensors will be an advantage 	
IASIA-01	4	8 or 12 months	<p>Programmer (Internship)</p> <p>Training scholarship or allowances: not less than HK\$8,000 per month</p>	<p>Job description:</p> <ul style="list-style-type: none"> • Responsible for implementation of financial trading systems including development, testing, systems maintenance and support • Participate in the assigned projects and conduct project implementation <p>Technical skills required:</p> <ul style="list-style-type: none"> • Knowledge in 2 programming languages of JAVA, C# or SQL • Basic knowledge in database systems 	iAsia Online Systems Limited www.iasia.com.hk
INNOP-01	2 - 3	12 months	<p>Mobile apps developer (iOS or Android)</p> <p>Training scholarship or allowances: HK\$10,000 – 11,000 per month</p>	<p>Job description:</p> <ul style="list-style-type: none"> • Work with a team of developers to design and develop high quality Android or iOS applications • Analyze user requirements and ensure standards, procedures, and methodologies in the development life cycle are followed <p>Skills and requirements:</p> <ul style="list-style-type: none"> • Knowledge and experience in iOS development • Hands-on experience in Kotlin, Java or Swift, Objective-C 	Innopage Limited www.innopage.com

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ISL-01	2 - 3	8 or 12 months	Practical IoT & Edge Computing Solutions Training scholarship or allowances: not less than HK\$8,000 per month	Project Description: Based on the existing in-house developed IoT products to develop the next generation to address the potential market needs, such including the adoption of latest AI technology and sensor components. Technical Skills required: Programming languages; Software proficiency; Artificial Intelligence	Integrated Solutions Limited https://www.isl.com.hk/
KAGILE-01	1	12 months	Digital Transformation	Job Descriptions: <ul style="list-style-type: none"> • User requirement study • Design & Implement Smart Solutions for Enterprise Clients • User Acceptance Test • Documentation (Functional Spec & Technical Spec) Requirements: <ul style="list-style-type: none"> • Basic Programming skill: Python, HTML, PHP / Java / VB / ASP.Net • Basic API skill: REST / XML Soap • Basic Database skill: MS SQL, MySQL 	Kagile Solutions Limited
KARTA-01	1	12 months	IOT development	Job Descriptions: <ol style="list-style-type: none"> 1. Research on FPGA or similar programmable hardware-based acceleration solution 2. PoC development on FPGA firmware or similar hardware firmware 3. Work with cross functional teams to maintain and develop a diverse portfolio of high-quality products 4. Follow department standards for software development, including project planning, documentation, design reviews, software testing, project status reporting, and software configuration management 5. Upgrade existing firmware, continuously enhance and improve existing technologies to apply to new solutions Requirements:	Karta-X Technologies Limited

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				<ol style="list-style-type: none"> 1. Passion to pursue career path in Start-Up 2. Fundamental education in low-level programming and/or test 3. Knowledge of web and mobile application development 4. Computer Architecture 5. Programming languages: Verilog HDL, C++, Java, C#, C, Assembly 6. Strong Communication Skills in both English and Chinese 	
LEXIW-01	1 - 2	8 or 12 months	Software engineer trainee Training scholarship or allowances: not less than HK\$8,000 per month	<p>Company background: As a solution provider, Lexiwave Technology (Hong Kong) Limited specializes in Radio Frequency (RF) system and Radio Frequency Integrated Circuit (RFIC) design for communication and consumer products. Members of the management teams have been engaging in designing, producing and marketing RF communication products, RFIC and RF modules for more than 88 man-years worldwide. Given our industry experience and relationship, the company can provide complete IoT & Wireless solutions from design, manufacturing to product EMI/EMC compliance with joint efforts of our alliance companies.</p> <p>Job descriptions: The individual hired will perform software programming for wireless and IoT products, solutions and system platforms. Basic knowledge in C, C++, Python, PHP, HTML, JavaScript, Android, IOS programming and MySQL database is required with knowledge in wifi, bluetooth, TCP/IP communication and AI/machine-learning technologies preferred.</p>	Lexiwave Technology Limited http://www.lexiwave.com/
LEXIW-02	1 - 2	8 to 12 months	Firmware engineer trainee Training scholarship or allowances: not less than HK\$8,000 per month	The individual hired will perform MCU programming and hardware development for wireless and IoT products and solutions. Basic knowledge in C, C++ programming, Python MCU software development and App development. Electronic hardware design is required with knowledge in wifi, bluetooth, TCP/IP communication and machine-learning technologies preferred.	Lexiwave Technology Limited http://www.lexiwave.com/
LEXIW-03	1 - 2	8 or 12 months	RF engineer trainee	The individual hired will perform product defining, system and lineup analysis on wireless communication systems and antenna design. Design antennas, evaluation boards, RF & Microwave module and perform laboratory testing, optimization and troubleshooting. Firmware programming is also needed. Qualifications and Requirements: BSEE degree, MSEE	Lexiwave Technology Limited http://www.lexiwave.com/

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			Training scholarship or allowances: not less than HK\$8,000 per month	or PhD is preferred. Experience in utilizing RF and Microwave simulation tools (such as ADS, Microwave Office, HFSS) is desirable. Ability to measure RF parameters with standard equipment and RF PCB design experience is a plus.	
MCHIN-01	1	12 months (starting at June 2021)	Software Engineer Intern Training scholarship or allowances: HK\$8,000 per month	You will be responsible for building innovative software platform with AI and intuitive user interface for end-users. Responsibilities: <ul style="list-style-type: none"> Developing scalable web applications, server software or mobile applications, optional with APIs for third parties. Study or automate load & stress testing, improve frontend or backend performance. Collect user requirements with end-users and assist workshop Requirements: <ul style="list-style-type: none"> Available to work for a minimum of 4 days per week. Pursuing a Bachelor in n Computer Science, Computer Engineering, User experience design or equivalent field. Able to work independently and with a team Eager to learn new technology and software development tool. 	m-Chinese Solution Limited https://www.mlang.com.hk/
MLABS 01	1 - 2	8 months	Optimization of an FPGA-based SDRAM controller Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may	Our company develop a number of FPGA-based products as part of our ARTIQ control system for quantum physics experiments. Applications frequently require large amounts of high-speed memory, and our devices integrate DDR3 SDRAM connected directly to the FPGA to fulfill this requirement. The SDRAM controller we currently use has two main limitations, which result in low performance memory transfers: <ul style="list-style-type: none"> At the logic level, access patterns are not optimized and do not take advantage of the parallelization offered by the SDRAM architecture. 	m-Labs Limited https://m-labs.hk/

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			increase depending on performance)	<ul style="list-style-type: none"> At the physical level, we do not take advantage of the DQ read strobes and need to operate the SDRAM at a lower clock frequency than its rated maximum in order to obtain sufficient margins. <p>This project consists in:</p> <ol style="list-style-type: none"> Developing better memory controller logic that can pipeline transfers and offer >95% of the peak theoretical bandwidth on sustained linear accesses. Modifying existing ARTIQ FPGA cores that perform DMA so that they become able to exploit the memory controller's new pipelining capabilities. Developing a better physical layer (for Xilinx 7-series FPGA) that can clock the SDRAM at higher frequencies. (This consists entirely in FPGA programming, no advanced hardware skills required) <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - Python - FPGA design 	
MLABS-02	1 - 2	8 months	<p>Development of Python-based EDSL for hardware description</p> <p>Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)</p>	<p>We have developed the Migen Python-based embedded domain-specific language for hardware description (https://m-labs.hk/gateway/migen/), and it has been successfully applied into many FPGA projects such as the ARTIQ quantum physics experiment control system.</p> <p>We have learned a lot during the many years that it has been in use, and there are a number of issues that we would like to address nowadays, in order to make it better integrated with other EDA flows, support DSP algorithms better, produce more reproducible output, and support a cleaner user-friendly syntax that complies with PEP8.</p> <p>This project consists in implementing these new ideas into a rewritten version of Migen.</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - Python - VHDL 	m-Labs Limited https://m-labs.hk/

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MLABS-03	1 - 2	8 months	Production test suite for ARTIQ Sinara hardware Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)	<p>Our company produces a range of electronic devices for controlling scientific experiments and collecting data, in particular for quantum physics.</p> <p>This project consists in developing a test suite that automatically tests each produced module, loads any necessary firmware, and measures the module's performance. All data should be recorded it into a database along with the module's serial number in order to ensure traceability. Example modules include digital I/O cards, direct digital synthesis (DDS) cards, ADC and DAC cards - see https://m-labs.hk/experiment-control/sinara-core/ for more information.</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - Python - Databases - Test automation - Hardware testing (optional) 	m-Labs Limited https://m-labs.hk/
MLABS-04	1 - 2	8 months	Extensions to Gitea to support hardware development Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)	<p>Gitea is a self-hosted open source Git platform (similar to GitHub) that our company is using, and which is primarily oriented towards software development. Our many hardware-oriented projects could benefit from features that are specific to such projects:</p> <ul style="list-style-type: none"> • secure hardware-in-the-loop automated testing on pull requests for firmware and FPGA code. • graphical diffs for schematics and PCB layouts (see e.g. https://bugs.launchpad.net/kicad/+bug/1774887), for Kicad and/or Altium files. • continuous testing for signal integrity, controlled impedances, and other design rules. <p>As such features do not exist yet, this project consists in developing some or all of them. Additionally, several improvements to the Gitea testing UI could be developed, in order to bring it to a similar level of functionality as GitHub Actions.</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - Web development - Go - Git - UI/UX design 	m-Labs Limited https://m-labs.hk/

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				<ul style="list-style-type: none"> - Graphics programming (optional) - Reverse engineering of proprietary CAD formats (optional) - Nix (optional) 	
MLABS-05	1 - 2	8 months	<p>Hardware and firmware development for a vacuum gauge controller</p> <p>Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)</p>	<p>We are developing a controller for ionization vacuum gauges (https://github.com/m-labs/ionpak). The hardware needs an overhaul in order to add features (such as simultaneously supporting Pirani gauges), change the form factor, fix a number of bugs, and switch to a STM32 MCU. It also needs to be characterized. The firmware need further work, in particular to support MQTT telemetry.</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - Embedded systems - Analog and power electronics - PCB layout - TCP/IP (optional) - Rust (optional) 	m-Labs Limited https://m-labs.hk/
MLABS-06	1 - 2	8 months	<p>Monitoring GUI for ARTIQ remote network devices</p> <p>Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)</p>	<p>The ARTIQ quantum physics experiment control system is able to use remote devices connected to network servers. Those remote devices can currently be monitored and accessed using command-line tools. The objective of this project is to develop a more user-friendly PyQt or web-based interface, as well as implement missing features in the existing monitoring capabilities.</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - UI/UX design - Python - Qt or web development - Data analysis (optional) 	m-Labs Limited https://m-labs.hk/

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MLABS-07	1 - 2	8 months	<p>The next-generation ARTIQ compiler</p> <p>Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)</p>	<p>Our ARTIQ quantum physics experiment control system compiles user-defined code for execution on a programmable embedded device that provides low I/O latency with the experiment. Such code is written in a subset of Python with extensions to control I/O timing, and with tight integration into the Python interpreter running the rest of the experiment.</p> <p>We are currently in the process of rewriting the compiler to provide much faster compilation speeds, and better predictability and user-friendliness. The new compiler is written in Rust and uses the PyO3 binding and the RustPython parser, and intends to leverage the parallel programming capabilities of Rust to increase compilation speeds further. You would join our small team working on this project and help develop parts of the compiler.</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - Python - Rust - Compilers - LLVM - Parallel programming - Embedded systems - Teamwork <p>This is a challenging project and students should submit examples of code that they have written around the topics of LLVM and compilers.</p>	m-Labs Limited https://m-labs.hk/
MLABS-08	1 - 2	8 months	<p>Port of ARTIQ to the Zynq Ultrascale+ and RFSoc devices</p> <p>No. of interns required: 1 - 2</p> <p>Internship Duration:</p>	<p>Xilinx's RFSoc devices provide an attractive hardware platform for running quantum computers based on superconducting qubits, with many channels of low-latency and extremely fast ADCs and DACs integrated in a small, low-power, scalable package.</p> <p>While our ARTIQ control system for quantum physics experiments currently supports Zynq-7000 chips, RFSoc devices are based on the different Zynq Ultrascale+ architecture. The goal of this project is to port ARTIQ to the Zynq Ultrascale+ programmable system, and, if time permits, develop FPGA code and RFSoc DAC and ADC drivers to generate and process classes of signals relevant to qubit control.</p> <p>Knowledge and Skills Required:</p>	m-Labs Limited https://m-labs.hk/

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			8 or 12 months Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)	<ul style="list-style-type: none"> - Embedded systems - Rust (optional but highly recommended) - FPGA design (optional) - Digital signal processing (optional) 	
MLABS-09	1 - 2	8 months	MSYS2 packaging of ARTIQ and other scientific software Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)	<p>The current packaging system for our ARTIQ quantum physics experiment control system, when run under Microsoft Windows, is based on Anaconda Python. We want to switch to the technically superior MSYS2 environment, which unfortunately is not popular within the scientific community and therefore many ARTIQ dependencies are missing. This project consists in packaging ARTIQ, its dependencies, and other popular scientific programs and libraries for the MSYS2 environment.</p> <p>MSYS2 packaging should be preferably automated using the functional language Nix, either by using a cross-compiler on Linux or by controlling a Windows virtual machine through Nix (see https://git.m-labs.hk/m-labs/wfvm).</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - Linux - Windows - Nix and Hydra (optional) 	m-Labs Limited https://m-labs.hk/
MLABS-10	1 - 2	8 months	FPU support for RISC-V ARTIQ core devices Training scholarship or allowances:	<p>Our ARTIQ quantum physics experiment control system compiles user-defined code for execution on a programmable embedded device that provides low I/O latency with the experiment. An increasing number of users wish to use floating point operations in their code, which are slow on FPGA-based devices with a softcore CPU that does not have a FPU. This project consists in adding a gateway FPU to the soft processor used in such devices (OpenRISC or RISC-V) and supporting it in the LLVM-based ARTIQ compiler.</p>	m-Labs Limited https://m-labs.hk/

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			HK\$10,500/month for 40-hour/week (which may increase depending on performance)	<p>Knowledge and Skills Required</p> <ul style="list-style-type: none"> - Python - Embedded systems - FPGA design - RISC-V (optional) - LLVM (optional) 	
MLABS-11	1 - 2	8 months	<p>Proof-of-concept for a x86-based ARTIQ core device</p> <p>Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)</p>	<p>Our ARTIQ quantum physics experiment control system compiles user-defined code for execution on a programmable embedded device that provides low I/O latency with the experiment. While embedded processors nowadays reach clock frequencies in excess of 1GHz, they remain much slower than high-volume low-cost x86 microprocessors for the PC and server markets. One potential issue with such high-volume microprocessors is the I/O latency, as every transaction involves serial communications the PCI Express bus which is built into modern processors, and, on some motherboards, requests need to be routed through the chipset which incurs additional latency.</p> <p>This project consists in measuring the latency between the CPU core of various low-cost PC motherboards and an FPGA connected to a PCI Express slot, implementing the ARTIQ real-time I/O core into the FPGA, developing a proof-of-concept ARTIQ core device using the x86 processor as its CPU, and characterizing its performance.</p> <p>Knowledge and Skills Required:</p> <ul style="list-style-type: none"> - FPGA design - Low-level I/O programming - UEFI (optional) - PCI Express (optional) - Python (optional) - Rust (optional) 	m-Labs Limited https://m-labs.hk/
MLABS-12	1 - 2	8 months	An operating system for a digital signal processing module	<p>Our Sinara 8452 digital signal processor is a versatile device whose application could be made easier by major firmware architecture improvements. Currently, each application needs a custom built firmware that needs to be compiled and entirely reflashed into the device. This is unwieldy especially for end users who are experimental physicists and not programmers. This project consists in developing a small real-time low-latency operating system in Rust for this device, which contains the base services (TCP/IP, MQTT, ADC/DAC drivers) and allows</p>	m-Labs Limited https://m-labs.hk/

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
			Training scholarship or allowances: HK\$10,500/month for 40-hour/week (which may increase depending on performance)	dynamic loading and concurrent real-time execution of user payloads received over the network. A large part of this work consists in designing relevant APIs. Common applications should also be ported to the operating system: - PID controller - IIR filter - PDH lock for laser cavities (with https://github.com/sinara-hw/Pounder/wiki) - Measurement of transfer function (using log swept sine) Knowledge and Skills Required: - Embedded systems - Operating systems - API design - Rust (optional but highly recommended) - Digital signal processing (optional) - Control theory (optional)	
MINDL-01	2	12 months	Software Engineer Intern Training scholarship or allowances: HK\$8,500 - 9,000 per month	The position will be assisting to Natural Language Processing (NLP) Engineer or designates according to their working experiences and qualification. ROLE (What you'll be doing...) <ul style="list-style-type: none"> Assists in the creation of languages resources and their integration into the Language processing engine Assists in collection of human conversation data and samples Assists in research and development on language models, including statistics, and their applications to human-machine conversation interfaces Assists in the development of user sentiment analysis system REQUIRED (What we need from you...) <ul style="list-style-type: none"> Pursuing a Degree in Computer Engineering, Computer Science, Electronic Engineering, Information System or relevant discipline in NLP or artificial intelligence, deep learning, machine learning Interested in NLP and related technology (Deep Learning, Machine Learning, Artificial Intelligence) 	Mindlayer Limited www.mindlayer.io

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> • Experience with Deep Learning libraries (TensorFlow/Torch/Theano/Caffe) is preferred • Experience in Chatbot or Question Answering System is preferred • Have a good command of at least one programming language used in NLP (e.g. Python) is preferred • Autonomous, rigorous, dynamic, engaged and a real team-player • Fluent in Cantonese and English • Able to flex in the support of multiple/changing needs within the organization • Strong communication skills, both oral and written, including presentation skills • Extremely responsive with a strong sense of urgency • A good team player who is mature and can work independently 	
OLIVEX-01	1	8 or 12 months	AI Engineer Training scholarship or allowances: Not less than HK\$8,000 per month	<p>Job Description: Work on gesture and pose recognition for the Kara Smart mirror and mobile apps. Create models and tools to enable runtime recognition and feedback to the user's fitness exercises using computer vision. Work on Machine Learning-enabled recommendation systems for the Kara content pipeline.</p> <p>Technical Skills: Familiarity with Python, pandas, scikit-learn. Familiarity with Machine Learning theory. Nice to have: Experience with AWS.</p>	OliveX (HK) Ltd www.karasmartfitness.com
OLIVEX-02	1	8 or 12 months	Web Site Developer Training scholarship or allowances: Not less than HK\$8,000 per month	<p>Job Description: Create web pages, UI components, and SDKs for our consumer and admin websites.</p> <p>Technical Skills: Javascript, ReactJS.</p> <p>Other: Applicants should have prior experience with building websites, and should be able to show examples of their work.</p>	OliveX (HK) Ltd www.karasmartfitness.com
OURSK Y-01	1	12 months	Software Engineer (Web / iOS / Android)	Oursky is a software product studio proudly based in Hong Kong, comprising a diverse and socially progressive team of experts working remotely from different locations. We are a technology-oriented and developer-driven team who values craftsmanship.	Oursky Limited www.oursky.com

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
			<p>No. of interns required: 1</p> <p>Training scholarship or allowances: HK\$8,000 – HK\$18,000 per month</p>	<p>Our mission is to create open-source solutions to help enterprises in digital transformation and support developers in building secure and privacy-aware software. We are self-funded, ensuring our engineering culture and excellence are built into our digital products.</p> <p>Oursky's Professional Services team builds digital products with great user experience for clients all over the world. We provide user interface and user experience (UI/UX) design, agile software development, QA as a Service, and product management services for clients that range from rockstar startups to multinationals like Standard Chartered Bank, A.S. Watson Group, and Nvidia.</p> <p>We also have a machine learning team that provides machine learning and data warehouse services. Our products include:</p> <ul style="list-style-type: none"> ● Authgear — an open-source auth-as-a-service solution for consumer-facing web and mobile applications. Authgear is developer-friendly with opinionated defaults. It helps developers improve security of their apps by easily enabling 2FA, session management, and passwordless login out of the box. Authgear helps businesses unify the authentication experience across multiple platforms with simple integration. ● FormX.ai — we help businesses understand documents with latest AI technologies. FormX is an API that extracts structured information from mobile device-captured documents or forms. Our clients range from Shopping Malls who want to extract product line items from receipts to recommend better offers to customers, to Governments who want to speed up approval process by verifying address and name from bank statements automatically. ● Gesprek — an open-source social commerce software for small and medium-sized enterprises (SMEs). We unify different chat channels such as WhatsApp, Facebook Messenger, or email, and make it easy for sales teams to perform conversational sales with customers by integrating various customer relationship management (CRM) and e-commerce platforms. <p>We have a strong engineering culture. We use the latest programming languages (most of our codes are in Python and Go, but we also use Haskell, Rust, and other new languages experimentally), employ a high standard of code review, and adopt streamlined internal tools for DevOps and continuous integration (CI).</p>	

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<p>Job Descriptions:</p> <p>We're open to 1 year internship as a Software Engineer (Web / Mobile) You will learn the following in this job:</p> <ul style="list-style-type: none"> ● Learn the cutting edges technologies in Web (Javascript, HTML, Python, RoR, Go-lang) OR iOS / Android development. ● Learn the best practices on software development, including code review session to make sure your classes are properly designed, unit testing, usage and atomic commit to git repository, etc. ● Learn to pay attention to details, especially how to implement beautiful and nice UI with guidance and review by other developers and designers. ● Work with a team of rockstar developers and cats! <p>You will do the following in this job:</p> <ul style="list-style-type: none"> ● Involve in discussion, planning and brainstorming for different digital products. ● Develop new features / bug fixes according to the sprint plan after meeting with design / project team. ● Architect the software to satisfy both business requirements and scalability needs. ● Depends on your experiences and roles, code in Python / HTML5 & CSS / Javascript / Go-lang / Ruby on Rails / iOS / Android. ● Follow and improve our development process including stand-up meetings, repo and code review with github, issue tracking with sprint, CI with travis, etc. <p>We write code in the following tech stacks, you don't have to know all of these coming in.</p> <ul style="list-style-type: none"> ● Backend: Python, Go, Typescript, Kotlin, Rust ● Web Frontend / PWA: React.js, Vue.js, Ionic ● Storage/Cache: PostgreSQL, MySQL, Redis, Elastic Search ● Mobile: Native iOS (Swift), Android (Kotlin), React Native, Flutter ● Tools: Basecamp, Slack, Github, Travis-CI, zube.io ● DevOps: Docker, k8s <p>We're looking for you if...</p> <ul style="list-style-type: none"> ● You want to work in small team and hate bureaucratic process; 	

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> You're a quick learner, geeky and love hacking stuffs; You enjoy trying out new things and cutting edge technologies; You love solving problems and code; You have experience or eager to learn Web Frontend and Backend technologies! 	
OURSK Y-02	1	12 months	Software Project Associate Training scholarship or allowances: HK\$8,000 – HK\$18,000 per month	<p>Oursky is a software product studio proudly based in Hong Kong, comprising a diverse and socially progressive team of experts working remotely from different locations. We are a technology-oriented and developer-driven team who values craftsmanship.</p> <p>Our mission is to create open-source solutions to help enterprises in digital transformation and support developers in building secure and privacy-aware software. We are self-funded, ensuring our engineering culture and excellence are built into our digital products.</p> <p>Oursky's Professional Services team builds digital products with great user experience for clients all over the world. We provide user interface and user experience (UI/UX) design, agile software development, QA as a Service, and product management services for clients that range from rockstar startups to multinationals like Standard Chartered Bank, A.S. Watson Group, and Nvidia.</p> <p>We also have a machine learning team that provides machine learning and data warehouse services. Our products include:</p> <ul style="list-style-type: none"> Authgear — an open-source auth-as-a-service solution for consumer-facing web and mobile applications. Authgear is developer-friendly with opinionated defaults. It helps developers improve security of their apps by easily enabling 2FA, session management, and passwordless login out of the box. Authgear helps businesses unify the authentication experience across multiple platforms with simple integration. FormX.ai — we help businesses understand documents with latest AI technologies. FormX is an API that extracts structured information from mobile device-captured documents or forms. Our clients range from Shopping Malls who want to extract product line items from receipts to recommend better offers to customers, to Governments who want to speed up approval process by verifying address and name from bank statements automatically. 	Oursky Limited www.oursky.com

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> ● Gesprek — an open-source social commerce software for small and medium-sized enterprises (SMEs). We unify different chat channels such as WhatsApp, Facebook Messenger, or email, and make it easy for sales teams to perform conversational sales with customers by integrating various customer relationship management (CRM) and e-commerce platforms. <p>We have a strong engineering culture. We use the latest programming languages (most of our codes are in Python and Go, but we also use Haskell, Rust, and other new languages experimentally), employ a high standard of code review, and adopt streamlined internal tools for DevOps and continuous integration (CI).</p> <p>Job Descriptions:</p> <p>Oursky is an engineering-driven company and we want to build the most beautiful, usable and technically interesting software. Our Software Project Associate Interns are an important part of it, they focus in understanding client's business and process, so that they can provide professional product management advice and create specification of the software product, and work with the team to deliver result.</p> <p>This is a perfect position for you, if you love taking responsibility, love great product design and technology, analytical, out- going and enjoy producing great products.</p> <p>You will learn the following in this position:</p> <ul style="list-style-type: none"> ● Learn how to “own” a digital product (web / mobile), work with team of professional to make it happens. ● Learn product and UX design concept and maintain quality of products. ● Learn how to analyze business requirements, write user stories and use proper product management tools. ● Learn how to communicate with clients, different stakeholders, users, and the SCRUM team effectively. ● Learn basic data analytic skills for product design such as AB testing, stats tracking, funnel analysis. <p>Responsibilities:</p>	

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> ● Produce digital products with emphasis on user experiences and lean, data-driven approach; ● Discuss, plan and brainstorm for ideas, user experiences, and technical requirements with multiple stakeholders; ● Write and prioritize user stories for SCRUM team according to its impact on product and business requirement; ● Coordinate software projects with SCRUM team members; ● Prepare proposal and weekly updates across all parties; ● Have fun and play with the cats in our office. <p>Requirements:</p> <ul style="list-style-type: none"> ● You love web and mobile app software products; ● You are talkative and good at communications; ● You are self-motivated; ● You are result-oriented and have an eye for details; ● You are good in both written and spoken English ● If you have software development experience, that's a HUGE PLUS! 	
OURSK Y-03	1	12 months	Software QA Engineer Training scholarship or allowances: HK\$8,000 – HK\$18,000 per month	<p>Oursky is a software product studio proudly based in Hong Kong, comprising a diverse and socially progressive team of experts working remotely from different locations. We are a technology-oriented and developer-driven team who values craftsmanship.</p> <p>Our mission is to create open-source solutions to help enterprises in digital transformation and support developers in building secure and privacy-aware software. We are self-funded, ensuring our engineering culture and excellence are built into our digital products.</p> <p>Oursky's Professional Services team builds digital products with great user experience for clients all over the world. We provide user interface and user experience (UI/UX) design, agile software development, QA as a Service, and product management services for clients that range from rockstar startups to multinationals like Standard Chartered Bank, A.S. Watson Group, and Nvidia.</p> <p>We also have a machine learning team that provides machine learning and data warehouse services. Our products include:</p>	Oursky Limited www.oursky.com

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> ● Authgear — an open-source auth-as-a-service solution for consumer-facing web and mobile applications. Authgear is developer-friendly with opinionated defaults. It helps developers improve security of their apps by easily enabling 2FA, session management, and passwordless login out of the box. Authgear helps businesses unify the authentication experience across multiple platforms with simple integration. ● FormX.ai — we help businesses understand documents with latest AI technologies. FormX is an API that extracts structured information from mobile device-captured documents or forms. Our clients range from Shopping Malls who want to extract product line items from receipts to recommend better offers to customers, to Governments who want to speed up approval process by verifying address and name from bank statements automatically. ● Gesprek — an open-source social commerce software for small and medium-sized enterprises (SMEs). We unify different chat channels such as WhatsApp, Facebook Messenger, or email, and make it easy for sales teams to perform conversational sales with customers by integrating various customer relationship management (CRM) and e-commerce platforms. <p>We have a strong engineering culture. We use the latest programming languages (most of our codes are in Python and Go, but we also use Haskell, Rust, and other new languages experimentally), employ a high standard of code review, and adopt streamlined internal tools for DevOps and continuous integration (CI).</p> <p>Job Descriptions:</p> <p>We're open to internship as a QA Tester. You will do the following in this job:</p> <ul style="list-style-type: none"> ● Design test plan, scenarios, scripts or procedures; ● Perform software testing and document software defects using issue tracker; ● Communicate and collect feedback from clients; ● Report and provide feedback for development teams to identify and resolve defects by drafting & reviewing software requirements and specifications documents ● Provide ideas to improve the quality of deliverable and QA process ● Have fun and play with the cats in our office <p>We're looking for you if...</p>	

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> You love web and mobile software products; You are talk active and good at communications; You have basic understanding and knowledge about software development projects; You are self-motivated and able to work individually You are detail - minded, be responsible, motivated, organised and pro-active 	
QUOKA-01	2	8 or 12 months	Developer Intern Training scholarship or allowances: Not less than HK\$8,000 per month	<ul style="list-style-type: none"> Design, develop and deploy scalable applications with the latest framework Build compelling user experience that meet our customers' needs Participate in product meetings and collaborate with team members to drive product direction. Experiment and analyze data to study user behaviours and continuously enhance the UI components. Requirements: <ul style="list-style-type: none"> BEng in Computer and Data Engineering (CDE) or BEng in Information Engineering (INFE)" 	Quokka Hong Kong Limited https://quokkahr.com
PRIST-01	1 - 2	8 or 12 months	STEM/Coding Ambassador Training scholarship or allowances: Not less than HK\$8,000 per month	PRISTER Corporation Ltd provides STEAM interdisciplinary education products, solutions and services to institutes including schools, learning centres and NGO. We are looking for passionate, energetic, responsible, creative individuals to empower and embrace 21st century education to join our team. Responsibilities: <ul style="list-style-type: none"> To plan and organize the course outline and curriculum To conduct the STEAM/Coding classes to primary school students To facilitate the student to achieve the learning objective To guide and engage students in robotics, coding with STEAM course to shape the young minds and inspire individual Requirements: <ul style="list-style-type: none"> Higher diploma or above in Computer Science or related discipline Minimum 2 year of work experience in STEAM/ Coding related Creative, Energetic, Passionate to work in STEAM/Coding/Education Industry Good Communication and Inter-personal skill 	PRISTER Corporation Limited

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> Self-motivated and result-oriented Good command of written English and Chinese 	
PRIST-02	1 - 2	8 or 12 months	Content Developer (English & Chinese) Training scholarship or allowances: Not less than HK\$8,000 per month	PRISTER Corporation Ltd provides STEAM interdisciplinary education products, solutions and services to institutes including schools, learning centres and NGO. We are looking for passionate, energetic, responsible, creative individuals to empower and embrace 21st century education to join our team. Job Description- Responsibilities: <ul style="list-style-type: none"> To develop the course outline and curriculum To train, facilitate and assist trainers To create a series of innovative contents to inspire young individual Requirements: <ul style="list-style-type: none"> Higher diploma or above in Computer Science or related discipline Minimum 2 year of work experience in STEAM/ Coding related Creative, Energetic, Passionate to work in STEAM/Coding/Education Industry Good Communication and Inter-personal skill Self-motivated and result-oriented Good command of written English and Chinese 	PRISTER Corporation Limited
RPA-01	1 - 2	12 months	Automation Developer Intern Training scholarship or allowances: Not less than HK\$8,000 per month	[to learn about robotic process automation see: www.RPA.HK/WhatIsRPA] Support development of basic automations for clients. (RPA.HK will provide free training to students/interns.) NOTE: RPA.HK company leaders are graduates of CityU! :-) basic computer skills i.e. Microsoft Office. Technical skills required: Basic programming skills will be helpful - esp. Python. An inquisitive nature, an intense desire to learn, and a strong work-ethic are most important! Good spoken Cantonese, Mandarin, and English will also be very helpful.	RPA (HK), Ltd. www.rpa.hk
SENSE-01	3	8 or 12 months	Job Title: AI Curriculum Developer	Qualification: <ul style="list-style-type: none"> Background in Computer Engineering, Electronic Engineering or IT related disciplines, preferably with IT/STEM 	SenseTime Website: www.sensetime.com

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
			<p>Location: Hong Kong Science Park, Shatin</p> <p>Training scholarship or allowances: HK\$80 hour. Normally students can get HK\$10,000 – HK\$14,000</p>	<ul style="list-style-type: none"> • education industry working experience; • Strong interests and enthusiasm on AI education; • Strong learning skill to new technology and new business; • Strong written, verbal and interpersonal communication skills. <p>Responsibility:</p> <ul style="list-style-type: none"> • Partner with AI and education experts to build cutting edge courses for K - 12 level students; • Collaborate in the development and testing of course content, including creating projects, exercises, manuals etc.; • Provide schools' teachers training on AI subjects, and perform demonstration and improvement of AI education products; • Solve technical business needs of partner and/or client by providing professional support; • Perform ad - hoc assignments as required. 	
SIMPLY-01	1	8 or 12 months	<p>Software Engineer</p> <p>Training scholarship or allowances: HK\$8,000 per month</p>	<ul style="list-style-type: none"> • With knowledge and related experience on recommendation system. In particular, Explainable AI • Conduct more research on how to design an Explainable AI model where the explainable component in the AI model comes from the combination of different insurance policies for recommendation systems • Deploy Explainable AI into our comprehensive datasets • Adapt machine learning and neural network algorithms and architectures to best exploit modern parallel environments (e.g. distributed clusters, multicore SMP, and GPU). <p>Technical skills required:</p> <ul style="list-style-type: none"> • Working Experience in data science, machine learning engineering, or data analytics related roles • Solid working experience in supervised learning, unsupervised learning & reinforcement learning, natural language processing • Project experience in applying AI, machine learning and/or NLP technologies to business applications • Hands-on experience in Python and common data processing and machine learning libraries and tools, such as pandas, numpy, scikit-learn, nltk, fastText, Jupyter noteboo, etc 	Simply Solution HK Limited

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				"	
SMART-01	2	12 months	Engineer Trainee, Electrics; Engineering Trainee Mechanics Training scholarship or allowances: HK\$8,000 per month	<p>We are a start up company engaging in design, manufacture and sale of mobility products employing sustainable energy.</p> <p>Job description: Assist the Engineering team and participate to design, build, test and support the company's products.</p> <p>Technical skills required: programming languages; software proficiency; technical writing; data analysis; artificial intelligence; others:-</p> <p>a) Students pursuing a degree course in subjects covering either disciplines Electrics and Mechanics. We look for students who have a broad scope of interests preferably cross disciplines. Our products employ Electric motors, solar power, battery, with electronic circuitries (motor control and user interface). Knowledge in assembly manufacturing, exposure to boat construction and hydrology will be most helpful.</p> <p>b) Students who are interested in hands on engineering work, in designing and building products.</p> <p>c) Students with experience in practical projects involving designing and building products preferred.</p>	Smart Mobility Limited https://www.smartmobility.hk/
SOLOS-01	1	8 or 12 months	Software Engineer (Algorithm and Signal Processing) Training scholarship or allowances: HK\$8,000 per month	<p>Responsibilities:</p> <ul style="list-style-type: none"> - Undertake research and algorithm design & development in the areas of AI, signal processing, speech processing, active noise cancellation for smart glasses. - Perform implementation in embedded real-time system, software/firmware design based on newly developed algorithms for smart glasses applications. - Functional and system integration testing and verification for smart glasses system. - Documentation writing such as new algorithm design, software design specification and software test specification etc. <p>Requirements:</p> <ul style="list-style-type: none"> - Undergraduates / Master in Electronics, computer engineering, mathematics or related disciplines. - Knowledge in signal processing, speech/image processing, filter design, AI is an advantage. 	Solos Technology Limited www.solosglasses.com

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
				<ul style="list-style-type: none"> - Experience in Matlab, Python or other programming languages for algorithm simulation development. 	
SOLOS-02	1	8 or 12 months	Electronics Engineer / Hardware Engineer Training scholarship or allowances: HK\$8,000 per month	Responsibilities: <ul style="list-style-type: none"> - Participate in the hardware design and prototyping for Bluetooth devices - Design circuit, PCB layout - Prepare engineering prototype - Troubleshooting on the prototype and product boards - Testing the products according to the specification Requirements: <ul style="list-style-type: none"> - Undergraduates in Electronics, computer engineering or related discipline - Knowledge in software tool of schematic and layout as a plus 	Solos Technology Limited www.solosglasses.com
SOLOS-03	1	8 or 12 months	Firmware Engineer Training scholarship or allowances: HK\$8,000 per month	Responsibilities: <ul style="list-style-type: none"> - Develop application in embedded system for Smart Glasses - Software development in C programming - Testing software development for production line - Troubleshooting on the development boards Requirements: <ul style="list-style-type: none"> - Undergraduates in Electronics, computer engineering or related discipline - Proficient in C programming language - Experience in Bluetooth Speakers and Earbuds firmware development - Familiar with I2C, SPI, UART interface and IMU sensors - Knowledge in Bluetooth Profiles is a plus - Experience in DSP developing and Assembly Language being an advantage 	Solos Technology Limited www.solosglasses.com
SOLOS-04	1	8 or 12 months	Mobil Application Software Engineer Training scholarship or allowances:	Responsibilities: <ul style="list-style-type: none"> - Native / Hybrid mobile apps development for smart glasses - Website / eCommerce development - Backend development for mobile apps - Software testing and verification 	Solos Technology Limited www.solosglasses.com

Post Code	No. of Interns required:	Internship Duration	Post / Project Title	Job descriptions	Company
			HK\$8,000 per month	<p>- Documentation such as software design specification, software test specification, user manual, etc.</p> <p>Requirements:</p> <ul style="list-style-type: none"> - Undergraduates for Computer Science, Computer Engineering or equivalent qualification - Familiar with Typescript / ES6 / HTML / CSS or Java / Kotlin or Swift / Objective C or C / C++ - Experience in Ionic, React Native, iOS or Android mobile app development is an advantage - Basic Knowledge of MEAN or MERN stack for frontend/backend development is a plus 	
SPORT-01	1	8 or 12 months	<p>Intern</p> <p>Training scholarship or allowances: not less than HK\$8,000 per month</p>	<ul style="list-style-type: none"> • Research existing market technology to identify weaknesses and market opportunities. • Develop and test hardware and software, and perform debugging if necessary • Work with the R&D team to integrate the technology required for the venue. • Assist the R&D team to develop operational guidelines for the benefit of others. • Assist in preparing progress reports and other documentation. • Assist in any ad-hoc duties as and when required. <p>Technical skills required:</p> <ul style="list-style-type: none"> • Degree in Computer Engineering, Electronic Engineering, Mechanical Engineering or related disciplines • Knowledge in the relevant software (IDEs, circuit design software like Altium and KiCad, mechanical CAD/CAE software like SolidWorks) and programming languages if applicable • Willing and able to learn new technical concepts and tasks. • A strong interest in the latest entertainment technologies will be a plus • Team player who is willing to work in collaboration with team members and external parties." 	Sportopia Limited
SUGA-01	1	8 or 12 months	<p>Embedded software development using XMOS controller chipset</p>	<p>Job description:</p> <ul style="list-style-type: none"> • XMOS multicore controllers, unlike conventional micro controllers, execute multiple real-time tasks simultaneously thus providing deterministic and low latency operations. • The target of the internship is to implement audio applications using XMOS controllers including but not limited to USB Audio Class 2 devices implementation, Audio DSP applications... 	Suga International Holdings Limited

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			Training scholarship or allowances: Not less than HK\$8,000 per month	Technical skill required: <ul style="list-style-type: none"> • Proficiency in C language • Familiar with embedded development environment • Matlab programming experience • DSP knowledge preferable 	
SUGA-02	1	8 or 12 months	Pet fountain with AI recognition function Training scholarship or allowances: Not less than HK\$8,000 per month	Job description: <ul style="list-style-type: none"> • Hardware design for pet water fountain with camera (AI recognition) • Porting the library to embedded system • Further enhance our Pet AI recognition model, e.g. accuracy, computing time/ resources need, motion tracking, 3D recognition, emotion analysis etc. Technical skills required: <ul style="list-style-type: none"> • Familiar in artificial intelligence • Programming languages: python, C/C++ 	Suga International Holdings Limited
UCODE-01	12 months	1 - 2	Assistant Instructor Training allowances: Not less than HK\$8,000	About UCode: UCode is a nationwide well recognised US coding education platform. We've been successfully teaching 8-to-16 year-old kids how to write software at our in-person centers for over 7years. UCode transforms kids into rockstars by fueling them with the superpower of being able to dream up an idea and make it come to life as an app, website, game, or even a gadget. In an engaging project-based learning environment, students learn an algebraic style of programming to create bug-free and high- performance code. We start with the fundamentals and end with mathematical and computational thinking skills beyond most professional software developers. We've transformed thousands of kids' educations and are poised to have a true impact on significantly more. Students have gone on to work at companies like Google and have written code used by billions of people. We are backed by Bloomberg Beta, Idealab, DHL and High Line Ventures, among others -- and we have a plan to expand in China and	UCode

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				<p>other parts of Asia over the coming years.</p> <p>Be part of the team in Asia to develop the coding education in Hong Kong market and other parts of Asia including commercialisation of the robot, participate in terms of user requirements:</p> <ul style="list-style-type: none"> • Interns need to learn how to teach coding; support and work with our coding educator to prepare and to teach students both online and classroom classes in Hong Kong or Shanghai • Interns can continue to be part-time or train to become UCode's full-time teacher • Able to understand program curriculum independently - including algorithmics like control structures, logic and imperative programming concept • Complete UCode training program and assist in organising camps and Competition • Patience and motivated while working with children • Experience in online teaching and learning • Experience in classroom teaching • Familiar with Zoom • Open minded • Ability to lead • University student (final year is preferred), studying in engineering and took computer science courses • Computer language knowledge such as Python, CSS, HTML, Java is a Plus • Have a passion for teaching kids ages 8-to-16-year coding and computer science • Have well developed communication skills -- especially verbal skills and be able to teach in English and Mandarin • Experience and have knowledge to use Zoom to conduct classes • Project well in an online environment • Independent active learning • Successful pass UCode skills assessment test • Able to speak English and Mandarin • Computer skills include : Python, HTML, CSS, Java Script is a plus 	

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WEAVA-01	3	8 or 12 months	Angular Developer Training scholarship or allowances: not less than HK\$8,000 per month	<p>Weava is a Chrome Extension/Web Application Ed-tech tool, it is a highlighting tool that can be used on any websites and PDFs, it is rapidly growing with currently over 500,000 active installs of our software, and over 2,000,000 highlights being made with our software every week.</p> <p>Beyond general product improvement, there are three primary additional projects (based on interest, but in prioritized order):</p> <p>Project 1: Angular 11 front-end web app coding</p> <ul style="list-style-type: none"> You will be closely collaborating with experienced developers on improving the product. As the current Weava Chrome Extension was developed using AngularJS, you will help the team migrate it into the latest Angular version. Additionally, you should have theoretical knowledge of software engineering, and must be proficient in JavaScript/Typescript, HTML, and CSS. Having Angular experience is ideal, but it is not required as long as you are willing to learn the technology. <p>Project 2. NoSQL data migration from Google Firebase into AWS DocumentDB</p> <ul style="list-style-type: none"> You will be closely collaborating with experienced developers and fellow interns on improving the product. As the current Weava System was developed using Firebase as its database, and this service is costly with large data usage, you will help the team migrate the current system into using AWS DocumentDB. Additionally, you should have theoretical knowledge of software engineering, and must be proficient with non-relation database. Having DocumentDB or MongoDB experience is ideal, but it is not required as long as you are willing to learn the technology. <p>Project 3: Modern REST API based on micro-service architecture running on AWS</p> <ul style="list-style-type: none"> You will be closely collaborating with experienced developers and fellow interns on improving the product. As the current API was developed using ExpressJS running on Node.js, it has a monolithic Architecture that is not easily scalable for high demand end-points. As such, we are moving into micro-service architecture using AWS lambda deployed using AWS Serverless Application Model. Additionally, you should have theoretical knowledge of software engineering, and must be proficient in 	Weavatools Limited www.weavatools.com

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				<p>JavaScript/Typescript and Node.js. Having AWS lambda and SAM experience is ideal, but it is not required as long as you are willing to learn the technology</p> <ul style="list-style-type: none"> • Additionally, this project is closely related to the Firebase Migration and will closely collaborate with them if it is ongoing by the time of application. <p>Project 1 - Angular 11 front-end web app coding Knowledge and Skills Required:</p> <ul style="list-style-type: none"> • Angular experience or willingness to learn the technology • Javascript/typescript language proficient • HTML 5 and SCSS knowledge • Designs and develop codes that follow the team's best practices. • Critical thinker and good problem solver • Ideally, proven experience implementing front-end JavaScript applications (can be personal project) • Ideally, Redux, Firebase, and Chrome Extension Development knowledge is a plus <p>Project 2 - NoSQL data migration from Google Firebase into AWS DocumentDB Knowledge and Skills Required:</p> <ul style="list-style-type: none"> • Having AWS DocumentDB or MongoDB experience, or willingness to learn the technology. • NoSQL database proficiency • Knowledge of NoSQL schema designing and query optimization • Ideally, proven experience in designing NoSQL database (can be a personal project) • Firebase Realtime Database knowledge is a plus <p>Project 3 - Modern REST API based on micro-service architecture running on AWS Knowledge and Skills Required:</p> <ul style="list-style-type: none"> • Having AWS lambda and SAM experience or willingness to learn the technology • Javascript/typescript language proficient • Node.js knowledge • Design and develop codes that follow the team's best practices. • Critical thinker and good problem solver 	

<i>Post Code</i>	<i>No. of Interns required:</i>	<i>Internship Duration</i>	<i>Post / Project Title</i>	<i>Job descriptions</i>	<i>Company</i>
				<ul style="list-style-type: none"> • Ideally, proven experience implementing rest API javascript/typescript applications (can be personal project) • - Open API knowledge is a plus" 	