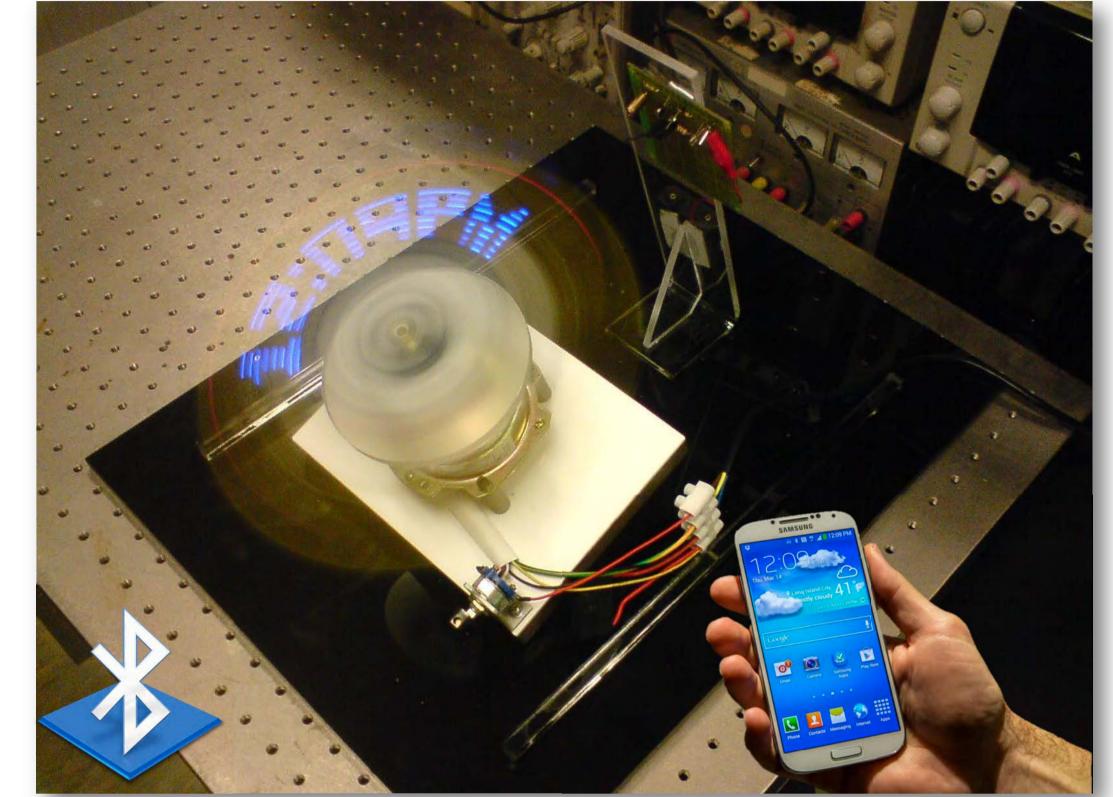


## Student: YEUNG Ka Po Supervisor: Dr. Chan, Andy H P

## **Objective/Background**

- Display technology based on persistence of vision
- Feature with simpler electronic driving circuit and flexible appearance



**Programme: BEngECE** 

 Prototype rotating LED display with enhanced control functionality

## Methodology

Persistence of Vision		Synchronization		Control
Afterimage persists on	•	Coordination between	•	Receive command from
retina for 0.04s		MCU and motor		user and perform
Time-space sharing	٠	On/off period of LEDs in		different functions
concept		sync with motor rotation	•	Serialize command for

- υσπουρι
- Attach LEDs to highspeed rotating device
- Sync with motor rotation
- Add a reference point by using optical sensor
- tranceion
- transmission
- Transmit and receive
  using Bluetooth

## **Functions/Specification**

- Display resolution up to 8 x 240 pixels
- Receive command directly from other Bluetooth devices (e.g. PC, smartphone)
- Different text messages display (e.g. static or scrolling, graphic patterns, digital clock)

