

**Student: LAM Man Tung**

**Programme: BEngECE**

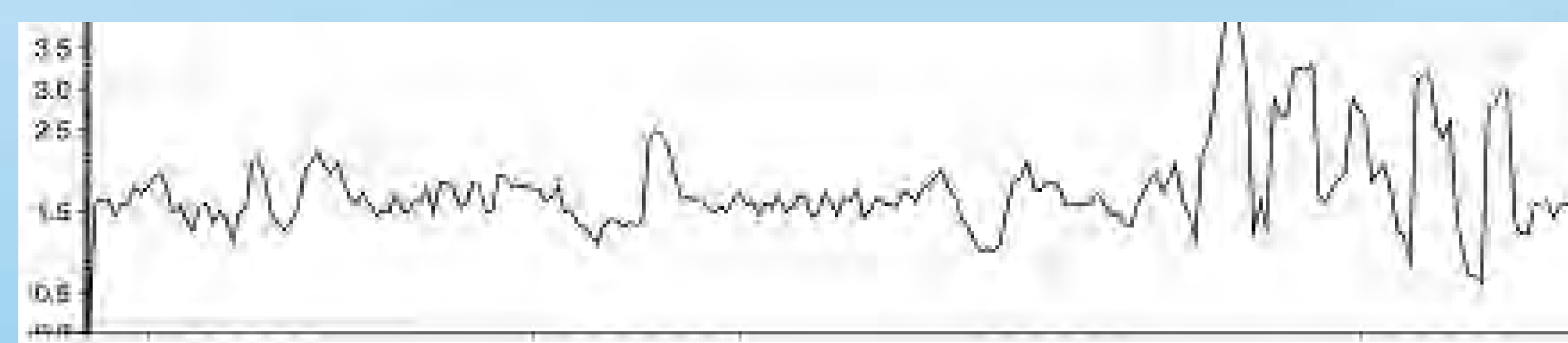
**Supervisor: Dr S H LEUNG**

## Objective/Background

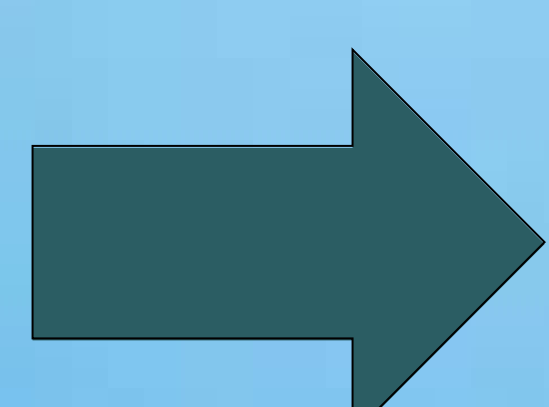
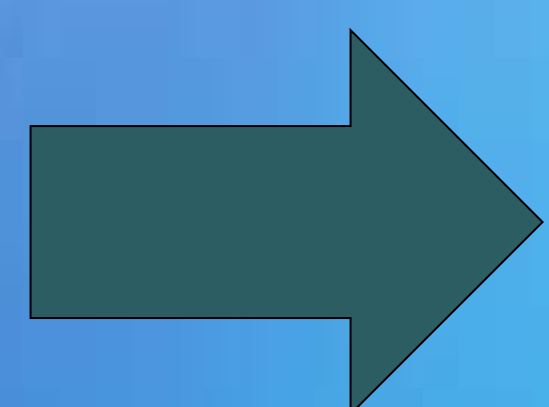
- *To build a fall detection system that can detect falls and daily motion of user*
- *To build an iOS application to detect a fall programmatically and indicate the daily motion of user*
- *To build an iOS application for sending an emergent message for the occurrence of a fall by a phone call or email*

## Methodology

- *Analysis the fall and movement signal*



- *Using Bluetooth Low Energy to send the data*



## Results/Application (if any)

- *Ankle worn fall detection system*
- *Automatically emergent email after a fall*
- *GPS function to record the instant location*
- *Phone call alert after the occurrence of a fall*

