

# Embedded HW development

for innovative control device

*Mentor: Mars Yeh*

*Location: Hsinchu, TW*

*Duration: 6 months*

## Overview

Innovation in consumer electronics calls for more and ever smarter integrated HW systems which can deliver new thrilling user experiences. Such systems must leverage latest sensor technologies to be coupled with powerful embedded SW capabilities.

## Objectives

- Co-work with software, mechanical engineering and industrial design team to define the system architecture requirements.
- Off the shelf research and integrate innovative sensors in the device design.
- Design and build hardware optimized for power consumption and performance.
- Perform PCB electrical validation, measure performance and improve design.
- Conduct design review with peers.

## Knowledge/Skills

- Open-minded, outspoken and curious personality with out-of-the box thinking abilities.
- Team player, able to work with multiple constraints
- Knowledge or experience in electronic systems design:
  - Integrated circuits and control units
  - USB and bus interfaces.
  - Integrated silicon and MEM sensor technologies.
  - RF and antennas for wireless communication.
- Hands-on experience in PCB layout and assembly.
- Embedded software capabilities is a plus.
- Good English spoken and written skills.