Training for development of system using **MEMS** sensors

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Control

Thesedays, many MEMS (micro electro mechanical systems) devices are used in our life, such as the accelerometer and microphones used in the smartphone, and the gyroscope used in the digital camera and drones.

In this course, students will learn basic skills for the development of a system using MEMS sensors. Because the time of lecture is limited, some self-study is requested to fully understand the course, therefore, students who really interested in electronic works and

programming are welcome.

Sensor

(including not MEMS)

Data Accelerometer Gyroscope Magnetometer Pressure sensor Ultrasound sensor (mic) Temperature sensor

Microprocessor



Actuator / Display

Motor Solenoid Micromirror LCD



Learn the basic skills



*After this course, student who want to apply a MEMS contest, iCAN(http://www.ican-contest.org/index.html), can continue the development. We can provide the working place, tools and advices.