Workshop 2

IoT Workshop: Edison Platform with IOT Control Using Arduino IDE by Intel Malaysia Sdn Bhd

Presenter: Harry Chand and Intel Maker Committee

Mr. Harry Chand, with an Electronic Engineering background, is passionate about robotic and programming. He has experience in conducting various Edison workshops within university and outside of university together with Intel Maker Committee.

Intel Maker Committee, is a team where we passionate about the maker and we believe everybody can be a maker from small simple application to industrial application. We deliver workshop to Intel employee and university program, and we are also active in organizing maker event to encourage people to innovate their idea into reality.

Coordinator: Dr. Asmidar Abu Bakar, UNITEN

Target Audience:

The target audience for this research workshop is academic researchers— faculty, postdoctoral students, graduate students, and other researchers— who are interested in learning Arduino IDE using Edison platform for connecting and creating controls within and among devices.

Description:

Ever wonder how all the devices are interconnected and smarter? IoT (Internet of thing) is the solution where the physical devices, vehicle, sensor and other devices are inter-networking. With IOT, it makes devices connected and smarter to operate.

The target audience is academic and industrial researchers or who are interested in programming and electronics control to further their innovation in robotic and automated devices. The workshop will focus on hands-on practical in embedded programming with Intel Edison. Participants will bring back knowledge on how the devices begin control with smart phone and all the sensor data is displayed on web-page.

The workshop course content:

Time	Topic
9:00 a.m. – 9.30 a.m.	• Introduction to Edison and its specifications
9.30 a.m. – 1:00 p.m.	• Getting started with Arduino Programming • Connect Edison with smart phone • Introduction to Edison's yocto and MRAA library
1:00 p.m. – 2:00 p.m.	Lunch Break
2:00 p.m. – 5:00 p.m.	• Python programming with MRAA • Edison application with webserver interface • Edison with Camera interface. • Question & Answer session