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Shining Bits Labs

Internship Programme

Internet of Things Application (Offline)

What will you learn ?

1. Introduction to IoT

- What is IoT ?
- Examples of IoT Applications ?
- What can we achieve ?

2. Introduction to IoT Architecture

- Three Layer Architecture
- Protocols in each of the layers
- MQTT Protocol
- Command Line MQTT

3. Introduction to Single Board Computers and MicroControllers

- Difference between SBC and MicroControllers
- When to choose what ?
- Introduction to RaspberryPi and Arduino
- Introduction to Sensors and Actuators
- Hands on Physical Computing Examples (*Still not IoT!*)

4. Introduction to Cloud for IoT

- Why Cloud for IoT?
- Different Cloud Providers?
- Introduction to ThingSpeak Cloud for IoT
- Use ThingSpeak to push and pull data
- Hands on ThingSpeak

5. Integrating Hardware and the Cloud

- Pushing Data to ThingSpeak from Rpi or Arduino
- Actuating based on data from ThingSpeak (*Now its IoT!*)

Final project: Smart Toy

If interested apply @ internships@bytestorm.in