MicroPython and Microcontrollers

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Introduction

This workshop will introduce the student to Python coding, electronics, and project design. We will building several projects ranging from simple to complicated. These projects are based on the ESP8266 microcontroller which is running MicroPython and they depend on some other electronics components such as LEDs, buttons, and more.

Chapter 1

Project 1: Blink

Chapter 2

Project 2: Button

Chapter 3

Project 3: LED Party

Chapter 4

Project 4: Sensor

Chapter 5

Project 5: Game

Chapter 6

Project 6: Chat

Chapter 7

Electronics Essentials

Chapter 8

Python Primer

Appendix A

Electronics Essentials

Appendix B

Python Primer