

**Submit Assignments via email to**

aaron.m.perez@gmail.com

**Subject Line:** “Arduino Blink - Your First Name”

## **Week 1 Assignments**

- Please ensure that the Arduino IDE is downloaded on your computer.
  - <https://www.arduino.cc/en/Main/Software> (Copy & Paste)
- **Question:** What problems do you see in your life that Arduino could help you solve?
- **Research** an article on a project on Google Scholar that solves a world problem using computer programming and robots. This article will help you begin to develop ideas for your final project! **Discuss next class.**
- **Create** an Arduino Sketch to have an LED Blink “ON” and “OFF” for various amounts of time to have the LED blink on and off.
  - Please take a 5-10 second video of the lights “blinking” and email it to me.
- **Draw** a simple M/E Sketch on your graph paper to demonstrate your understanding of how the LED connect to the Arduino.
  - Please take a picture of the M/E Sketch and email it to me.
- Here is the code to use for the LED Blink Arduino Sketch
  - Please label each line of code in your own words

### **CODE**

//TITLE: Blink an LED

void setup() { //START

pinMode(13, OUTPUT); // initialize digital pin 13 as an output

}

void loop() { // the loop function runs over and over again forever

digitalWrite(13, HIGH); // turn the LED on by making the voltage High

delay(100); // wait for 100 ms

digitalWrite(13, LOW); // turn the LED off by making the voltage Low

delay(50); // wait for a 50 ms

}//End