

Arduino Merit Badge Assessment

Based on Raspberry Pi Skill Badge Requirements (adafruit learning system)

Instructions: do each of the following and submit to your instructor.

- 1.) Identify and describe five possible applications for an Arduino in a K-12 school setting.
- 2.) Identify and describe the peripherals necessary for operating the Pi.
- 3.) Identify and describe the necessity of a good quality power supply.
- 4.) Identify and describe the differences between 5 different Arduino compatible microprocessing boards
- 5.) Identify and describe the pins of an Arduino Uno.
- 6.) Complete one of the lessons (10-17) for Arduino on the adafruit learning system (<http://learn.adafruit.com/category/learn-arduino>)
- 7.) Design, but don't implement, a project using an Arduino other than the Arduino Uno. Describe why the Arduino board you are selecting is appropriate for the project.