# Arduino, Electrical Soldering and Oscilloscope

Mentor: Tito Polo



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Arduino design has been at the front of user-friendly software and hardware development, especially to solve real-world problems. Students worked on Arduino projects such as, programming a blinking LED, creating a temperature and humidity sensor circuit, working on a water level detection device, controlling DC motors using Arduino via Bluetooth, wire up and use an alphanumeric LCD display, analog Joystick module and several other sensors. Students learned the concepts of and how to implement different electronic components, Digital and Analog circuits, and Arduino boards. Students also learned how to solder electronic components, and the use of electrical measuring equipment, such as the voltmeter, ammeter, function generator and oscilloscope. During the micro-internship, students designed and assembled the Arduino Automatic Watering Plant System.