Wiring Training Sessions

**Materials Needed:**

- Butane Soldering Iron

- LEAD Solder

- Solder Cleaner

- A Couple Of Electric Soldering Iron (NO PISTOL GRIP)

- Silicon wire (12 ga 14 ga18 ga)

- MOSFETS

- LEDs

- Resistors

**Time (Min/Meeting):**

- Probably 1 - 2 hours per meeting

- 5 out of the 10 days

**Outline Of Curriculum:**

- Week 1: Basic outline of what the course will be about

Basic outline of the wiring course

- Week 2: Learning about the power system used on a robot

Students will be learning what the different parts are on the robot.

Basic Soldering and heat shrinking

- Week 3: Soldering And Crimping

Students will be creating a circuit with resistors and LED’s

How to crimp, crimp v.s. solder

Bullet connectors

- Week 4: Soldering Mosfets to LED’s

- Week 5: Wiring actual robot components.

Proper routing of wires.

Wire harnessing

**Certification:**

- Students will have to be able to know how to solder, crimp, and understand how the power system works. Demonstrating that they can build the circuits in the training sessions, and can put wires together cleanly.