

# L1 Electrical Panel Builder

## Responsibilities:

- Builds the electrical panel based on Electrical Schematics and Layout drawings
- Installs the electrical panel on the robot
- Installs and wires all sensors
- Installs Pneumatic components such as valves, air preparation/storage, and plumbing based on Pneumatic Schematics and Layout drawings
- Creates “red-line” drawings and keeps them updated throughout the life of the robot
- Maintains the Electrical and Pneumatic systems of all robots in the fleet

## Requirements:

- Must meet fundraising, outreach, and attendance requirements
- Basic use of hand tools
- Test & Measurement tools
- Know basic DC Circuits
- Wiring and assembly techniques/best practice
- Intro to Electrical & Pneumatic Schematics
- CAD Electrical Schematic knowledge is preferable

## Comfortable with the following (able to be tested and pass with satisfaction):

- Crimping
- Questions/Component Identification:
- Basic Wire Management
- Basic Schematic Usage

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