

# L2 Electrical Engineer

## Responsibilities:

- Mentor (L1) Electrical/Panel Builders
- Oversee electrical and pneumatic work in the shop
- Works with the other Managers to select electrical and pneumatic components
- Designs Electrical Schematics and Panel Layout based on team Standards & Best Practices
- Designs Pneumatic Schematics and Panel Layout based on team Standards & Best Practices
- Responsible for updating the Engineering Workbook and maintaining project documentation
- Takes guidance from mentors and maintains Standards & Best Practice documentation

## Requirements:

- Must meet fundraising, outreach, and attendance requirements
- Knowledge bank to pursue:
  - DC Circuits
  - Communication Networks
  - Discrete and Analog control circuits
  - Circuit Layouts
  - General Sensor knowledge
  - Drive Systems
  - Encoders
  - Closed Loop vs. Open Loop control
- Must be CAD capable in OnShape or SolidWorks to design sensor, camera, and electronic mounts

Must be confident (and able to pass, if tested, with satisfaction) in the following:

- Crimping
- Questions/Component Identification:
- Advanced Wire Management
- Rule Questions
- L1 CAD Certified

- Electrical Schematics

Confident L2's can wire a subsystem on their own with appropriate wire lengths, documentation, schematics, and necessary components/parts WITHOUT crimp failures.

---

Revision #1

Created 27 May 2026 20:01:13 by mukiewukie16

Updated 27 May 2026 20:06:17 by mukiewukie16