

Electrical Engineering Intern – Fall 2025 / Spring 2026

Overview

Contribute to electrical system design, PCB layout, and test verification for lunar rover and ISRU electronics. Work closely with the EE team to iterate flight-like hardware.

Key Responsibilities

- Assist in schematic creation and PCB layout (Altium Designer) for sensor interfaces, power-distribution units, and control boards.
- Prototype PCBs in lab: component placement, soldering, and functional evaluation.
- Develop test scripts for power-electronics evaluation (DC/DC converters, motor drivers) using LabVIEW or Python.
- Support embedded firmware tasks: help with microcontroller programming (ARM Cortex-M) for sensor readout and actuator control.
- Archive electrical documentation: maintain version control, update schematics, and record test procedures.

Required Qualifications

- Enrolled in Electrical, Aerospace, or Computer Engineering program.
- Hands-on experience with circuit simulation (SPICE) and PCB tools (Altium or Eagle).
- Familiarity with LabVIEW or Python for automated testing.
- Comfortable using oscilloscopes, multimeters, and power supplies.

Preferred Qualifications

- Exposure to FPGA/HDL development (Verilog/VHDL) or radiation-hardened electronics.
- Knowledge of EMI/EMC best practices and space-qualification testing.

Duration & Compensation

- Full time (35-40hr/week) from August 25 to December 15, 2025 (Fall) or January 15 to May 1, 2026 (Spring).
- Potential continuation into Summer 2026.

