



Intern: Electrical Engineer

Umbra Lab, Inc. (“Umbra”) is a Santa Barbara, CA venture-backed technology company developing next-generation space systems. We are looking for mission-driven professionals to join Umbra. We are building a bold, experienced team of payload developers and spacecraft systems engineers to aggressively expand the state-of-the-art for commercial remote sensing. Join our team to embark on an exciting, innovative and meaningful career. Every team member can have a significant and essential impact, and career growth is unlimited. The commercial remote sensing industry is experiencing meteoric growth – this is a chance to change how humans and machines use data from space.

We are looking for a talented, mission-driven intern to work closely with a multidisciplinary engineering team as an Electrical Engineer Intern to aid in the development Umbra electronics for next-generation radar systems.

Key Responsibilities

- Support Satellite Electrical Engineers with design, analysis, rework, and design verification testing of electronic assemblies
- Interface with software developers and systems engineering in support of design verification activities
- Support engineering team with the manufacturing of RF circuits and antennas
- Support manufacturing and testing safe to mate interconnect activities.

Basic Qualifications

- Currently enrolled in a Bachelor of Science program, in relevant STEM discipline such as electrical engineering
- Completed entry level circuits, calculus and physics courses at the College level.
- Comfortable reading a schematic and component datasheet
- Comfortable with testing of analog and digital electronics
- Familiarity with test equipment such as oscilloscopes, spectrum analyzers, logic analyzers, thermal chambers, current probes

Desired Qualifications

- Experience with printed circuit board layout, (e.g. KiCad, Altium)
- Experience in C / C++ and Python.
- Experience with firmware for embedded systems (e.g. microcontrollers, FPGAs)
- Experience with power supply circuits, analog filters, amplifiers
- RF design relevant coursework.
- Familiarity with SPI, RS-422, RS-485, Ethernet protocols.

Additional Requirements

In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire. All persons hired will be required to be a U.S. citizen, a lawful permanent resident of the U.S., or protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

To apply: Email resume to careers@umbralab.com.