Electrical Engineering Internship/Co-op

Full-Time • Seattle, WA

Spring or Summer 2027

Last Modified: Nov 11, 2026

Company Overview

Chiplytics provides a quality assurance platform that powers the distribution of secure, authentic electronic components. The company is the first to commercialize a scalable electrical testing method for authenticating microelectronics, combined with AI, machine vision, and supplemental inspection techniques to achieve unprecedented coverage and traceability. Chiplytics is trusted by leading defense and high-reliability manufacturers to protect the integrity of the semiconductor supply chain. For more information, visit chiplytics.com.

Job Description

We're hiring an **Electrical Engineering Intern/Co-op** for Summer 2027 (with the option to start sooner) to develop custom circuitry for our counterfeit detection technologies. You'll work closely with our Chief Technology Officer and engineering team to define requirements, build prototypes, perform testing and feasibility studies, and take hardware from concept to product. You'll serve a key role in launching our next generation of inspection products, including the General External Visual Inspection (GEVI) system and Micro Inspection Platform (MIP).

Responsibilities

1. Design schematics and lay out PCBs for custom electronics, from conception through fabrication
2. Design and validate power supplies and regulation circuits, including buck, boost, buck-boost, LDO, and digitally programmable designs
3. Read and understand component datasheets, layout best practices, to determine how to best implement required functionality on custom PCBs
4. Select components and maintain BOMs, weighing performance, cost, availability, and lead time
5. Design digital and analog interfaces, such as I2C, SPI, UART, USB, and signal conditioning circuits
6. Find off-the-shelf boards, modules, and ICs, and combine them in custom configurations to get working prototypes quickly
7. Judge when a COTS solution is good enough and when a custom board is worth building
8. Solder, reflow, and rework PCBs and prototype assemblies
9. Verify and debug performance with oscilloscopes, multimeters, power supplies, electronic loads, and logic analyzers
10. Write basic firmware and scripts to test hardware

11. Build the cables, adapters, fixtures, and test setups needed to get the job done
12. Document designs, test results, and design decisions so others can pick up where you left off
13. Take part in design reviews with the CTO and engineering team

Requirements

- Currently pursuing or recently completed a bachelor's degree in Electrical Engineering or related fields
- Strong foundation in analog and digital circuits
- Has designed at least one PCB and taken it through to working hardware, whether in a class, on a student team, or as a personal project
- Comfortable reading schematics and datasheets and applying them to a real design
- Can solder and reflow PCBs, or is eager to learn quickly
- Experience using standard lab equipment, especially oscilloscopes and multimeters
- Experience integrating microcontrollers, such as Arduino, STM32, or ESP32
- Experience with robotic and dynamic systems is a plus
- Strong problem-solving and analytical skills
- Excellent communication and teamwork skills
- Self-driven and able to work well with ambiguity
- Capacity to work up to 40 hours per week in-person in the Chiplytics Seattle, WA office
- Must be a U.S. person (U.S. citizen or lawful permanent resident) due to export control regulations

How to Apply

Send an email to join@chiplytics.com with your resume and short paragraph about yourself and why you're interested in applying.