Software Engineering Internship (Seattle, WA)

Chiplytics Inc.
109 W Denny Way #310, Seattle, WA 98119

Company Overview

Chiplytics is a Seattle-based startup developing scalable microelectronics inspection technology to secure the global supply chain against counterfeit, malicious, and low quality parts. Legacy nodes (28nm and up) are the backbone of almost every electrical system, making up 95% of the commercial semiconductor market by volume. Heavy reliance on overseas manufacturing and complex distribution channels leaves room for vulnerabilities in critical infrastructure and national security. Chiplytics fills the gaps by providing an automated testing platform that verifies the authenticity and integrity of high volumes and varieties of microelectronics with ease, empowering a more secure and resilient supply chain.

Job Description

The Chiplytics Software Engineering Internship for Summer 2025 involves contributing to the design and development of the Microelectronics Inspection Platform (MIP). The work will be primarily focused on robotics and machine learning to enhance the functionality and reliability of core components of the MIP. This role has the potential to grow into a variety of sub-disciplines of software engineering, including application development, quality assurance, and user interface design. You will work closely with and report directly to the Software Engineer at Chiplytics.

Responsibilities

1. Work on computer vision models and robotics routines to implement new capabilities on the Microelectronics Inspection Platform (MIP)
2. Define and implement metrics and quality assurance test plans to track and evaluate system performance
3. Integrate and enhance functionality from Chiplytics backend and SDKs
4. Develop UI where applicable to run tests and new features
5. Collaborate with engineers to define user needs and interaction flows
6. Participate in regular design reviews
7. Maintain documentation and reports related to designs and tests

Requirements

1. Pursuing a Bachelor's or Master's degree in Computer Science, Robotics, Electrical Engineering, or related field
2. Programming experience in Python and embedded systems such as Arduino and Raspberry Pi

3. Project experience with robotics, machine learning, and data science
4. Familiarity with unit testing and basic quality assurance principles
5. Strong problem-solving and analytical skills
6. Excellent communication and teamwork skills
7. Self-driven and able to work well with ambiguity
8. Capacity to work 24 hours per week in-person at the Seattle office

How to Apply

Please submit to Handshake a PDF of your resume and, optionally, a cover letter and any other information highlighting your past experience. If applying outside of Handshake, please send these materials instead to internships@chiplytics.io.