

## **Hardware 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 Hardware Engineering Internship for Summer 2025 involves contributing to the design, development, and manufacturing of the Microelectronics Inspection Platform (MIP). The work will be primarily focused on improving the functionality and usability of core components of the MIP, including the automated probing system and tape-and-reel chip extraction. This role has the potential to grow into a variety of sub-disciplines of product development, including low-volume manufacturing, human-centered design, and mechatronics. You will work closely with and report directly to the Product Development Engineer at Chiplytics.

### **Responsibilities**

1. Conceptualize, prototype, and test electromechanical systems for data-driven microelectronics inspection technology
2. Design and implement test plans to validate the quality and performance of parts and assemblies
3. Improve the usability and look and feel of subsystems based on feedback from the team and customer interactions
4. Prepare renderings, exploded views, and mechanical drawings to communicate designs to customers, vendors, and external partners
5. Maintain organized documentation of design requirements and test plans
6. Communicate with the rest of the team, including electrical and software leads, to gather requirements and constraints
7. Work with electrical engineer to help execute testing and assembly of circuits and PCBs as needed

### **Requirements**

1. Pursuing a Bachelor's or Master's degree in Mechanical Engineering, Robotics, or related field

2. Project experience with mechanical CAD software including SOLIDWORKS
3. Project experience with 3D printing, CNC machining, and other rapid prototyping technology
4. Experience with machine design or mechatronics fundamentals
5. Experience with programming in Python and on hardware platforms including Arduino and Raspberry Pi
6. Strong problem-solving and analytical skills
7. Excellent communication and teamwork skills
8. Self-driven and able to work well with ambiguity
9. Capacity to work 24 hours per week in-person at the Seattle office

### **How to Apply**

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