

TYLER KEESEE

Auburn, NY / keeseetyler@yahoo.com / +1 315-730-0351

Summary

Innovative and self-motivated **Software Engineer** and **AOI Operator** with a strong foundation in electronics manufacturing and self-taught expertise in software development. Experienced in operating advanced **Automated Optical Inspection (AOI)** systems for quality assurance, inspecting over 10,000 PCBs weekly with defect detection rates exceeding 98%. Skilled in **full-stack development** and leveraging AI tools to deliver scalable and efficient solutions to complex challenges. Passionate about problem-solving, continuous learning, and creating impactful technological solutions.

Experience

Self Educated

, Auburn, NY

07/2018 - Present

- Designed and built custom web applications using **React**, **Node.js**, **Python**, and **SQL**, focusing on functionality, security, and performance optimization.
- Fluent in multiple programming languages, including **Go**, **Rust**, **Java**, **C++**, **Python**, **JavaScript**, **HTML**, and **CSS**.
- Leveraged AI tools to accelerate coding, debugging, and optimization, delivering innovative and scalable solutions to complex real-world problems.
- Conducted end-to-end project development, including gathering requirements, coding, testing, and delivering final solutions.
- **Key Projects:**
Crypto Tracker: A web-based cryptocurrency tracking app. <https://tyler1201623.github.io/Crypto-Tracker/>
Portfolio Website: Showcasing professional projects. <https://tyler1201623.github.io/Portfolio/>
Digital Clock: A functional digital clock app. <https://tyler1201623.github.io/Digital-Clock/>
Electrical Engineering Project: Tools and utilities for engineers. <https://tyler1201623.github.io/Electrical-Engineering/>

Emcom INC

AOI Operator, Auburn, NY

12/2022 - 12/2024

- Operated advanced **AOI systems**, inspecting over 10,000 PCBs weekly with defect detection rates exceeding 98%.
 - Partnered with engineering teams to address manufacturing challenges, resulting in a 15% reduction in defect rates.
 - Prepared detailed inspection reports that streamlined production processes and improved operational efficiency.
 - Trained and mentored junior operators, ensuring compliance with safety and quality standards.
 - Demonstrated technical expertise through involvement in software development and hardware optimization initiatives.
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Skills

Automated Optical Inspection (AOI) Systems, Backend Development (Python, SQL, APIs), PCB Inspection and Quality Assurance, Custom PC Building and Hardware Optimization, Defect Detection and Root Cause Analysis, Performance Tuning and Debugging, Data Reporting and Documentation, Version Control (Git/GitHub)

Education

GED

Union Springs High School