TYLER KEESEE

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Summary

Innovative and self-motivated **Software Engineer and AOI Operator** with a strong foundation in electronics manufacturing and self-taught expertise in software development and technical systems. Professionally operated advanced AOI systems for quality assurance, inspecting over 10,000 PCBs weekly and achieving defect detection rates exceeding 98%. Independently designed and built web applications to address technical challenges, demonstrating a passion for problem-solving and continuous learning. Dedicated to delivering high-quality results through hands-on experience, self-driven learning, and a commitment to innovation. Eager to bring technical skills, creativity, and a proactive mindset to a dynamic team.

Experience

Self Educated | Auburn, NY
07/2018 - Present
Built custom web applications as part of independent projects using React and Node.js, focusing on functionality and performance optimization. Designed and maintained backend systems with Python and SQL to ensure scalability and security in project applications. Diagnosed and resolved system performance issues during project development, enhancing application speed and reliability. Conducted end-to-end project development, from gathering requirements to delivering final solutions, iterating based on self-defined goals and improvements.

Emcom INC | Auburn, NY
AOI Operator | 12/2022 - 12/2024
Driven and detail-oriented professional with a passion for technology and self-taught expertise in software engineering, PC building, and electronics. Successfully operated advanced AOI systems, inspecting over 10,000 PCBs weekly while achieving defect detection rates exceeding 98%. Partnered with engineering teams to tackle manufacturing challenges, leading to a 15% reduction in defect rates. Developed comprehensive inspection reports that streamlined production processes and boosted efficiency. Actively trained and mentored junior operators, ensuring strict adherence to safety and quality standards.

Showcasing my technical projects:

- **Portfolio Website** (https://tyler1201623.github.io/Portfolio/)
- **Crypto Tracker** (https://tyler1201623.github.io/Crypto-Tracker/)
- **Digital Clock** (https://tyler1201623.github.io/Digital-Clock/)
- **Electrical Engineering Project** (https://tyler1201623.github.io/Electrical-Engineering/)

Eager to leverage my hands-on experience, innovative mindset, and self-taught technical skills to drive impactful solutions in technology and manufacturing.

Projects Custom Gaming PCs Designed and built high-performance gaming systems tailored to individual preferences and requirements. Optimized hardware configurations, achieving enhanced speed, reliability, and performance. Web-Based Inventory Management Tool Developed a web application for inventory tracking using React and Node.js as a personal project, showcasing ability to handle end-to-end development. Integrated secure backend functionality using SQL, ensuring data integrity and reliability.

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

Union Springs High School
GED