TYLER KEESEE

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Auburn, NY

Summary

Innovative and self-motivated Software Engineer and AOI Operator with a strong foundation in electronics manufacturing and software development. Skilled in leveraging advanced AOI systems for quality assurance and independently designing and building web applications to solve technical challenges. Passionate about innovation, technology, and delivering high-quality results through hands-on expertise and self-driven learning. Eager to contribute to a dynamic team where technical skills and creativity are valued.

Experience

AOI Operator

Emcom INC • Auburn, NY
12/2022 - 11/2024
Operated advanced AOI systems, inspecting over 10,000 PCBs weekly and maintaining defect detection rates above 98%.
Collaborated with engineering teams to identify and resolve manufacturing issues, reducing defect rates by 15%.
Prepared detailed inspection reports, providing actionable insights that improved production efficiency.
Trained and mentored junior operators, fostering adherence to safety standards and quality protocols. Software Engineer (Independent Projects)
Self-Taught - Auburn, NY, USA
2020 - 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.
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

GED

Union Springs High School