

TYLER KEESEE

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Summary

AOI Operator with a strong foundation in electronics manufacturing and Self-Taught expertise in software development and PC Building. 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.

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, Version Control (Git/GitHub), Quality Control and Inspection, Defect Detection and Reporting, Documentation and Data Tracking, Troubleshooting, Reading and understanding technical drawings, Able to work alone and as a member of a team, Communicate effectively and clearly with co-workers, Able to complete assignments and production sequences, Able to operate and maintain machinery, Knowledge of equipment and technical procedures, Experience in assembly work, Perform quality control checks for deformities, Monitor processes to drive productivity

Experience

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
- Collaborated with cross-functional teams to implement process improvements and enhance overall product quality

Self Educated

, Auburn, NY

07/2018 - Present

- Implemented A [Real-time Object Detection](#)
- Developed a Productivity-Booster [Desktop Widget](#) for enhanced efficiency in daily tasks
- Created a Portfolio Website showcasing professional projects [Tyler Keeseey | Self-Taught Engineer](#)
- Designed and developed [PyLearn IDE - Professional Python Learning Platform](#)
- Designed and built custom web applications using Node.js, Python, and SQL to optimize functionality, security, and performance
- Fluent in multiple programming languages, including Go, Rust, Java, C++, Python, JavaScript, HTML, and CSS
- Leveraged AI tools to accelerate coding, debugging, and optimization for innovative and scalable solutions to complex real-world problems
- Conducted end-to-end project development, including gathering requirements, coding, testing, and delivering final solutions

Cameron Bakery

Cashier, Auburn, NY

02/2020 - 08/2022

- Greeted customers entering establishments
 - Assisted customers by providing information and resolving their complaints
 - Received and processed payments and orders
 - Provided excellent customer service
 - Handled customer inquiries and concerns effectively
 - Maintained a clean and organized work area
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Education

GED

Union Springs High School