Shane Keel

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Professional Summary

Senior Equipment Engineer with 15+ years of experience in manufacturing, process improvement, automation, troubleshooting, quality systems, and capital projects. Currently expanding that engineering foundation into data science and AI/ML through TripleTen, with active study in Python, data analysis, statistics, machine learning, and applied AI.

Core Skills

- **Data & Analytics**: Python (developing proficiency), Data Analysis, Exploratory Data Analysis, Statistical Analysis, SPC, Minitab, Excel
- **Engineering**: Process Improvement, Root Cause Analysis, FMEA, MSA, IQ/OQ/PQ Validation, Manufacturing Systems
- **Automation & Tools**: Robotics, Automation, Ladder Logic, SolidWorks, Autodesk Inventor, AutoCAD, PolyWorks
- **Project Management**: Capital Projects, MS Project, Procurement, Vendor Selection, Budgeting, Cross-Functional Coordination

Professional Experience

Senior Equipment Engineer | **Honda of America, LLC** | East Liberty, OH | *Oct 2023 – Present*

- Lead end-of-line equipment validation in Vehicle Quality, including IQ/OQ/PQ protocol development and measurement system analysis (MSA).
- Analyze high-volume process data using SPC to identify trends and support corrective and preventive action.
- Manage capital equipment projects from scope definition through commissioning, emphasizing traceability, quality verification, and production readiness.
- Develop and maintain Python scripts that support data monitoring and process analysis workflows.

Capital Project Engineer | **Prospira America Corporation** Upper Sandusky, OH | *May 2022 – Oct 2023*

- Managed $1M–$3M capital equipment projects from conceptual design through launch as the sole project engineer.
- Led vendor selection and procurement for custom automation equipment, emphasizing one-piece flow and error-proofing.
- Developed project scopes, schedules, budgets, and facilitated cross-functional design reviews and equipment trials.

Manufacturing Engineering Technician | **Bridgestone APM** Upper Sandusky, OH **|** *July 2011 – May 2022*

- Supported mechanical, pneumatic, and hydraulic production systems while progressing into engineer-level responsibilities.
- Led root cause analysis and corrective action for production issues and executed engineering trials for new injection molds and materials.
- Developed training materials, standard work, troubleshooting procedures, SOPs, and technical documentation.

Education & Professional Development

AI & Machine Learning Bootcamp | TripleTen | In Progress - Python, statistics, data analysis, machine learning, neural networks, computer vision, NLP, LLMs, API development, MLOps, cloud deployment

BS, Engineering Technology | DeVry University | May 2025 | GPA 3.33

AAS, Mechanical Engineering | Marion Technical College | May 2023 | GPA 3.43

Certifications & Military

Lean Six Sigma Green Belt | Aveta Business Institute

Ohio Army National Guard | Infantry Fire Team Leader (11B) | 2003–2009 | Iraq deployment (2006); Hurricane Katrina search and rescue (2005)