David Trombley

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WORK EXPERIENCE

Process Engineer II, SupplyPoint – Durham, NC August 2025 – Present

- Built an ERP-integrated web platform generating unit layout visuals and shop-floor PDFs, unifying cross-departmental operations and cutting configuration time by 90%
- Delivered and shipped a customer-facing configurator with shareable, human-readable config links, letting sales reps and customers reload and modify complex builds instantly
- Developed an intelligent recommendation engine applying bin-packing logic across highly customizable unit families against customer item dimensions, replacing arbitrary manual sizing
- Designed a version-controlled digital work instructions system with ERP BOM sync, operator acknowledgment gating, 3D CAD step diagrams, and phased two-facility deployment
- Presented AI-integrated platform capabilities to stakeholders from floor operators to C-suite, establishing the business case for AI adoption as the company's first AI-driven operational tooling

Process and Quality Engineer, SupplyPoint – Durham, NC June 2021 – August 2025

- Deployed a new labeling system, which reduced label print times by over 90% and errors by over 99%, saving the company over $50k annually
- Designed Jira workflows supporting repetitive operations tasks, increasing visibility, and accelerating task completion by 70%
- Improved seven work center layouts to incorporate one-piece flow, reducing assembly times by 30%
- Produced LTL truck fill analysis tool in Excel, saving the company up to $250k annually
- Leveraged SQL Server and VBA to quantify recurring quality issues, presenting actionable insights to executive leadership through interactive PivotTable dashboards

Project Engineer Intern, CaptiveAire – Raleigh, NC February 2020 – August 2020

- Identified and implemented asset tracking software for over 20 schools, reducing asset search times by over 70%

SKILLS

- AI & Automation: Claude (Code, Design), agentic development, intelligent process automation
- Coding: Python, SQL Server, SSMS, VBA
- Cloud & DevOps: Azure DevOps, Docker
- Tools: Syspro (ERP), Jira, Power Query, Visio
- Technical: Lean Six Sigma, Process Optimization, Data Analytics, Data Visualization, Process Mapping

EDUCATION

North Carolina State University – Raleigh, NC May 2021

Bachelor of Science in Industrial Engineering

- First place in senior design project for HPLC data tracking optimizations using Lean Six Sigma concepts and meeting cGMP regulations for Pfizer’s Rocky Mount quality laboratory

LEADERSHIP AND ENGAGEMENTS

Esports at NC State - Founding Member and Finance Officer May 2018 - May 2021

- Spearheaded the club's founding to promote organizational growth to several hundred members
- Inspired school investment into the creation of the NC State Gaming and Esports Lab