Donald A. Sargent

Applications Engineer | Manufacturing Systems | Operational Analytics | Process Optimization

Brecksville, Ohio

440-251-2762

justdust@outlook.com

dsarge.com

PROFESSIONAL SUMMARY

Engineering and manufacturing systems professional with broad experience across product design, manufacturing operations, CNC programming, engineering automation, process optimization, and operational analytics.

Recent work has increasingly focused on engineering workflow analysis, manufacturing data organization, operational visibility, infrastructure evaluation, and automation of engineering processes using Python, SQL, PowerShell, and AI-assisted workflows.

CORE STRENGTHS

• Manufacturing systems & operational analysis

• Engineering workflow automation

• CNC programming & fixture design

• Engineering simulation & FEA analysis

• Process instrumentation & automated testing

• Manufacturing data analysis & ETL-style workflows

TECHNICAL PLATFORMS

Solid Edge • Creo / Pro-E • SolidWorks • GibbsCAM • Python • SQL • PowerShell • SharePoint • ERP Systems • CNC Programming • FEA (Solid Edge & Creo)

SELECTED EXPERIENCE

Lanly Company — Mechanical / Systems Engineer

• Developed engineering workflow analysis and operational visibility tools using Python, PowerShell, SQL, and AI-assisted workflows

• Conducted iterative FEA studies of high-temperature industrial oven systems using Solid Edge Simulation, Femap, and NX Nastran

• Developed automated engineering data analysis workflows for estimating, job tracking, and operational visibility

STERIS Corporation — Senior Designer

• Developed automated thermal testing and data-acquisition systems for engineering validation

• Designed fluid systems and medical-device components for sterilization systems

JLG Industries — Manufacturing Designer

• Developed dual-sided rotary welding fixture reducing cycle time approximately 50%

SELECTED RESULTS

• Reduced welding cycle time approximately 50% through fixture redesign

• Reduced machining cycle time from 45 minutes to 5 minutes

• Reduced scrap rates from approximately 20% to less than 1%

• Developed automated engineering and manufacturing data-analysis pipelines

• Contributed to 10 U.S. patents