

Srivardhan Rajappa Muralidhar

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PROFESSIONAL SUMMARY

ASU Master's specializing in **Distribution & Healthcare Systems**. Focused on **28% productivity gains via Lean Six Sigma, Discrete-Event Simulation**, and data-driven optimization.

EDUCATION

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| Arizona State University <i>Master of Science in Industrial Engineering</i> | Tempe, AZ |
| | Aug 2024 – May 2026 |
| • GPA: 3.27 / 4.00 Relevant Coursework: Supply Chain Modeling, Engineering Project Management. | |
| National Institute of Technology Tiruchirappalli <i>Bachelor of Technology in Production Engineering</i> | Tamil Nadu, India |
| | Jul 2020 – May 2024 |
| • GPA: 7.79 / 10.00 Relevant Coursework: Facilities Planning, Quality Assurance, Logistics. | |

EXPERIENCE

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| Supply Chain Research Intern <i>National Institute of Technology Tiruchirappalli</i> Mentor: Dr. P. Parthiban | Jun 2023 – Aug 2023 Trichy, India |
| • Led a Distribution Center Operations improvement project using SWMS to track material flow, achieving a 28% productivity increase and 20% reduction in cycle-time by building cost-benefit models. | |
| • Validated the cost-effectiveness of AGVs and AMRs through statistical modeling in MATLAB , projecting an ROI > 25% and presenting findings to stakeholders. | |
| Industrial Trainee <i>Steel Authority of India Limited</i> | Jul 2023 Salem, India |
| • Piloted a 5S initiative in the inventory bay by conducting a red-tag audit and introducing shadow boards , reducing tool search time by ~15% . | |
| • Analyzed distribution workflows and material handling to identify traceability gaps, reducing transit delays by ~12% . | |

PROJECTS

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| Urgent Care Throughput & Layout Optimization <i>Arizona State University</i> <i>Engineering Project Management</i> | Jan 2026 – Present Dr. Daniel McCarville |
| • Optimizing facility layout and operational workflows using Visio to enhance patient flow, targeting a 15% throughput increase through room arrangement and sequencing. | |
| • Coordinating cross-functional workflows across 7 clinical departments by developing a project plan and WBS in Microsoft Project . | |
| Semiconductor Yield Improvement: Six Sigma Green Belt <i>Kennesaw State University</i> <i>Capstone Project</i> | Dec 2025 – Jan 2026 |
| • Led a Six Sigma Green Belt project to reduce semiconductor cleanroom contamination incidents by 70% (from 6.4 to <2 per week) using the DMAIC methodology. | |
| • Validated process improvements via Two-sample T-test (p=0.018) , achieving a 36% particle reduction and preventing rework costs of \$8,000–\$12,000 per batch . | |
| Wafer Defect Reduction & Throughput Optimization <i>Arizona State University</i> <i>Systems Engineering</i> | Jan 2025 – Apr 2025 Dr. Ali Kucukozugit |
| • Pinpointed contamination sources causing 10+ hours of rework per shift and a 15% rise in wafer defects by applying DMAIC and root-cause analysis to refine filtration and material flow. | |
| • Projected +3–4 wafers/hour throughput under stable conditions by proposing automation and predictive monitoring strategies to stabilize operations. | |
| Service Capacity & Wait-Time Optimization (SimPy) <i>Arizona State University</i> <i>Advanced Simulating Stochastic Systems</i> | Nov 2024 – Dec 2024 Dr. Paul Grogan |
| • Slashed wait times from 11.3 to 4.9 minutes by building a SimPy -based model for Starbucks to optimize Restaurant Services capacity and staffing. | |
| • Optimized capacity planning by evaluating queue dynamics, bottlenecks, server utilization, and customer loss rate to inform scheduling decisions. | |
| WAAM Precision & Thermal Stress Optimization <i>National Institute of Technology Tiruchirappalli</i> <i>Capstone Project</i> | Jan 2024 – May 2024 Dr. V. Senthilkumar |
| • Minimized distortion to 0.0187 mm and residual stress to 218 MPa by building regression models and applying Grey Wolf Optimization . | |
| • Optimized deposition and thermal control strategies by running 27 full-scale simulations in Simufact Welding , improving dimensional accuracy. | |

TECHNICAL SKILLS

Methodologies: Six Sigma (Green Belt), DMAIC, SPC, 5S (Red-tagging), SLP, Kaizen, Queueing Theory, Discrete-Event Simulation, Root Cause Analysis, Inventory Management, Process Capability Analysis.

Software & Tools: Power BI (Certified), Tableau, SimPy, MS Project, Visio, AnyLogic, Arena, Simufact, SolidCAM, Fusion 360, Witness Arena, SimQuick, MS Excel.

Languages: Python, Java, C++, MATLAB, R, JavaScript, SQL, Visual Basic.