AJITH SRIKANTH

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Education

Northeastern University, **Boston**   May 2026
Master of Science in Advanced and Intelligent Manufacturing   **GPA**: 3.82
Course Work: *Manufacturing Process Design Engineering, Digital Manufacturing, Leadership Program, Lean Concepts and Applications & Intelligent Manufacturing*

SRM Institute of Science and Technology, **Chennai**   May 2022
Bachelor of Technology in Mechatronics Engineering   **GPA:** 3.68
Course Work: Control Systems, Manufacturing Methods, and IIoTs.

Skills

Manufacturing: *Operational Excellence, Process Improvement, Daily Management Systems (DMS), Total Productive Maintenance (TPM), Lean Methodology, Automation Systems & IoT Integration*
Automation: *Simio, MATLAB, SolidWorks, AutoCAD, SAP 7.8, GX Works*
Data Analysis: *SAP 7.8, Python Excel, PowerPoint & Root Cause Analysis*
Systems: *Windows, Linux, & Google Workspace*
Soft Skills: *Cross-functional Collaboration, Communication, Teamwork, Leadership, Problem Solving & Analytical Thinking*

Work Experience

Team Manager - Hero MotoCorp, *Haridwar & Tirupati, India*   Jul 2022 - Aug 2024
- Spearheaded Kaizen projects and implemented predictive maintenance systems, reducing downtime by 83% for CNC and PLC machinery.
- Contributed to conveyor automation in the weld shop by integrating welding robots, saving approximately ₹9,000,000 annually by reducing manpower requirements by two employees.
- Implemented tool cost reduction strategies and machine-level improvements, saving ₹28 per vehicle and extending machine life by five years with a minimal investment of ₹5,000.
- Digitized maintenance systems and optimized SAP-based Material Requirements Planning (MRP) processes to mitigate risks and improve resource management.
- Played a key role in Vida Electric Vehicle production by ensuring efficient plant operations through fixture optimization and automation programs.

Intern - Bosch Rexroth, *Ahmedabad, India*   May 2019 – Jun 2019
- Analyzed hydraulic circuits and collaborated on fluid power system designs for high-speed automated manufacturing equipment.
- Gained hands-on experience with valves, actuators, and pneumatic technologies applicable to automotive production lines.

Projects

[Optimization of Manufacturing Line Using Simio](), *Northeastern University Boston*   Nov 2024
- Optimized manufacturing processes using Simio simulation modelling, reducing cycle time by 15–20% and increasing WIP levels from 7,800 to 9,800 units through dynamic buffer management and worker allocation.
- Developed an IoT-enabled Smart Cell Dashboard integrated with Limble CMMS, improving machine availability (e.g., Honing machine from 75% to 86%) and reducing downtime by 8–10% using predictive maintenance aligned with TPM principles.

[Comparison between Bang Bang, PID, and LQR Controller in EDM Process](), *SRM Chennai*   May 2022
- Conducted a comparative analysis of Bang Bang, PID, and LQR controllers in Electric Discharge Machining (EDM), improving machining accuracy by 15% and reducing process variability by 10% using MATLAB simulations that demonstrated how optimized controllers could enhance precision and efficiency in EDM processes by up to 20%.

Certifications

- Implementing a Process Automation Strategy
- Lean Six Sigma White & Yellow Belt Certification
- Digital Manufacturing & Design Technology Specialization
- Introduction to Operations Management
- Data Analysis and Root Cause Analysis in Six Sigma
- Lean Tools and FMEA