

SHISHANTH RAMESH

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EDUCATION

University of Minnesota Twin Cities - Minneapolis, MN	Sep 2024 - May 2026
Master of Science in Industrial Engineering	GPA: 3.90/4.00
Minor in Business Management (Supply Chain Operations)	
Course Work: Production, Inventory & Service Operations, Decision Analysis, Strategic Sourcing, Engineering Optimization	
PSG College of Technology - Coimbatore, India	Aug 2017 - May 2022
Bachelor of Engineering in Production Engineering	CGPA: 7.63/10.00
Minor in Industrial Engineering	
Course Work: Design of Machine Elements, Statistical Quality Control, Applied Hydraulics and Pneumatics	

SKILLS

Core Competencies: 5S, PDCA Cycle, Predictive Analytics, DMAIC, PLC ladder logic, Demand Forecasting, GD&T, ERP, Lean methodologies, Integer Optimization, Data Driven Decision making, Gradient Boosting, CNN

Software & Tools: AutoCAD, PTC Creo, SolidWorks, ANSYS Workbench, Autodesk Fusion 360, COMSOL Multiphysics, CATIA V5, MATLAB, Automation Studio, Python (Pandas, NumPy, OpenCV), Groovy Script, Tableau, Excel (VBA, macros, Pivot Tables), Minitab, MySQL, MS Office, AMPL, Smartsheet

EXPERIENCE

Packaged App Development Associate , Accenture, Bengaluru, India	Oct 2022 - Jul 2024
<ul style="list-style-type: none">Spearheaded integration of SAP SD and EWM modules extracting results to Power BI dashboards for automotive orders, managed 250 shipments, cut lead time by 36 hours.Managed customer interactions and project timelines, deliver customized SAP solutions, achieving 95% on-time delivery and exceeding client expectations.Directed cross-functional teams by Agile Scrum that consolidated data from 10+ sources, automated Services in Ready API and drove Continuous Improvement via KPI Tracking, JIRA.	
Production Engineering Intern , Ashok Leyland - Hosur, India	Mar 2021 - May 2021
<ul style="list-style-type: none">Engineered CNC pivot and multi-functional fixtures to hold thermostats via SMED, cutting changeover from 12 to 3 minutes and created SOPs for standardized deployment.Streamlined Kit Shop by optimizing layout and relocating FIP SA, boosting area usage by 7%, throughput by 20 units/day, and first-pass yield to 96% via Value Stream Mapping in Microsoft Visio.Implemented redesigned trolley and inventory optimization with Kanban and ASRS in AnyLogic, reduced cycle time by 6 minutes, increased storage efficiency by 18%.Evaluated BS6 exhaust and NOx filter by CFD and DFSS, addressed AdBlue sprayer placement issues, and enhanced filtration efficiency by 6% performing Kaizen and 5 Whys.	
Industrial Engineering Intern , PSG Industrial Institute - Coimbatore, India	Aug 2017 - May 2020
<ul style="list-style-type: none">Refined sand-casting gating systems via DOE and bottleneck analysis through optimizing metal flow to reduce scrap rates by 15%, increase OEE 12% and achieve ISO 9001:2015 compliance.Ensured quality compliance for cranial implants by following SLA standards, using CMM and Gauge R&R to achieve 0.05 mm accuracy and 100% inspection validation.Conducted RCA in a medium-scale foundry, collected Anthropometric data with Kinovea, created Digital Human models and evaluated RULA/REBA, redesigned workspace reducing MSD 20%.Improved Impeller design of a general-purpose submersible pump, increasing flow rate by 60 L/min, extending lifespan and cutting production costs by \$5K.	

PROJECTS

Real-Time Defect Detection & SPC Implementation in Flywheel Housing Inspection

Aim: Developed a defect detection system, improving inspection accuracy by 98% and reducing manual inspection time.

Role: Implemented **machine learning**-based computer vision using OpenCV to classify defects, integrated **Control Charts** to track process deviations, reducing out-of-spec parts by 30%.

Designed an Automated Feeding Unit for Wire Flattening in Textile Industries

Aim: Developed a needle-feeding system, cutting manual labor by 25% and improving component reliability.

Role: Engineered mechanical system and tested wear by Pin-on-Disc analysis, reducing batch time by 2 minutes, doubling component lifespan, and enhancing throughput by **Process Automation**.

ACCOMPLISHMENTS

- Graduate Teaching Assistant:** Structured a robust project framework guiding 12 Six Sigma teams (60 students) by data driven methodologies and strategic **project management** principles to achieve process compliance.
- Pegasus Racing:** Achieved a 14% weight reduction in the **Powertrain** from 207 to 178 kg using topology optimization, implementing PFMEA and DFM, securing 7th place in Formula Bharat 2019.
- Research Articles:** Published "Improving the Efficiency of the Vehicle Service Sector Using CPM and PERT" [[doi](#)], "Recent Advances in the Ergonomic Risk Assessment of Small-Scale Industry Workers" [[doi](#)].