PRIYANGA P

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--- SUMMARY ---

Manufacturing Engineer with experience in MES implementation, process optimization, and SAP-MM operations. Skilled in production automation, and cross-functional collaboration to drive efficiency and reduce downtime. Strong focus on Industry 4.0 and data-driven manufacturing improvements.

--- EXPERIENCE ---

EATON POWER QUALITY PRIVATE LTD

Junior Project Engineer – Manufacturing | March 2024 - present

Projects Handled:

- **MES Implementation:** Led MES configuration for Circuit Breakers, Fuse, and RMU lines, improving data accuracy by 30% and decision-making time by 25%. Performed MES troubleshooting and established OT device connectivity to ensure real-time data flow and system reliability.
- **Production Line Implementation & Optimization:** Implemented a new 3-Phase UPS assembly line with optimized layout and workstation setup. Enhanced the existing RMU line using DMAIC and lean practices, resulting in a 30% increase in production efficiency and a 200% increase in throughput through improved process flow and reduced inefficiencies.
- **Matrix Preparation for Layout & Automation:** Prepared fuse grouping layout matrix to streamline component arrangement, improving production speed by 18%. Developed wire harness matrix to replace manual operations with automation, reducing manual errors by 25% and enhancing workflow efficiency.
- **Simulation & Data Analytics:** Developed assembly line simulations in ProModel, identifying inefficiencies and optimizing workflow, leading to a 12% reduction in production cycle time.

Key Responsibilities:

- **Industrial Engineering:** Developed and managed SOPs, PFDs, PFMEAs, and conducted Time Studies to standardize processes, identify potential risks, optimize workflows, and improve overall operational efficiency by 25%.
- **New Equipment Implementation:** Prepared MOC, EOP, and WSRA for newly installed assembly lines and machines.
- **Asset Capitalization:** Established asset certification procedures to improve accuracy in asset management and financial reporting.
- **Procurement Coordination:** Raised purchase requests in SAP-MM for machine acquisition and sourcing improvements.
- **Bill of Materials & Procurement:** Managed **SAP-MM** transactions, including BOM retrieval, procurement coordination, and machine acquisition, reducing material lead time by 20%.

EXOR ROBOTICS PVT LTD

Intern - Embedded Hardware Design | SEP 2022

- Designed schematics and PCB layouts using KiCad for Arduino-based systems, including LED control and AC-DC converter circuits.

CORE COMPETENCIES

- MES & Smart Manufacturing
- Process Improvement & DMAIC Analysis.
- Project Management & Workflow Optimization
- New Product line implementation.
- Cross-functional Collaboration & Communication
- Reporting and Intermediate Excel analysis skills.
- Vendor Relationship Management.

TECHNICAL & SOFTWARE SKILLS

- **Manufacturing & Engineering**: MES, SAP-MM, ProModel, Lean Six Sigma, CAD.
- **Programming**: C, Java, Python, HTML,SQL.
- **Development Tools:** Eclipse, Postman API, GitHub.
- **Data Analysis:** Power BI, Excel, PowerPoint, Word

EDUCATION

- **B.Tech in Electronics & Communication Engineering - CGPA: 8.8**
  Rajiv Gandhi College for Engineering and Technology, Pondicherry (2019–2023)
- **Higher Secondary** – **79.5%**
  Immaculate Higher Secondary School, Pondicherry (2018–2019)
- **High School** – **96.4%**
  Immaculate Higher Secondary School, Pondicherry (2016–2017)

PROJECTS

- **BACKEND PROJECT- "Employee Service"**
  Enhanced a microservice-based employee management system using Spring Boot within 2 weeks, enhancing backend efficiency.

- **MINI PROJECT - "Hydrogen Generator"**
  Designed a DIY Oxy Hydrogen generator through the electrolysis of water, showcasing a renewable energy application.

CERTIFICATIONS

- Java Full Stack Web Development - TNS
- Digital Electronics - NPTEL
- Crash Course on Python - Google Coursera

PUBLICATIONS

- Arrhythmia Classification on Electrocardiogram Data Set Using K-NN Classifier, "IJARESM" Volume 11 Issue 10, October – 2023.

- Comparative Analysis of Heartbeat Abnormalities using Deep Learning Algorithm, "JETIR" Volume 10, Issue 7, July 2023.