

# BALAJI PEDADA

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## SUMMARY

Master's student in Advanced Industrial Engineering with expertise in product management, supply chain analytics, and process optimization. Skilled in Six Sigma, Digital Twin, Sustainability, Controlling, and ERP/PLM systems. Proven ability to drive operational efficiency, develop automated reporting, and support cross-functional teams in agile environments. Passionate about improving supply chain visibility and leveraging Industry 4.0 technologies for continuous improvement.

## SKILLS

◆ MS Office Suite (MS Excel - VBA, MS Word, MS power point)	◆ Computer Aided Design (SolidWorks, AutoCAD, CATIA, Ansys)	◆ Primary Industry 4.0 Tech IOT, AI, Digital Twin
◆ Project Management: Digital Twin Implementation, Change Management, Agile Development	◆ Supply Chain & Inventory Management: Procurement, Material Planning, Stock Reporting, Deadline Monitoring	◆ SAP S/4 Hana, Sap Fiori, PLM & ERP Software
◆ Data Management: Power BI, Tableau, Production Planning	◆ Sustainability: Sustainability Metrics, Resource Optimization	◆ Data Visualization & Python, Data Pipelines, Stock Evaluation

## POFESSIONAL EXPERIENCE

**Industrial Data Analyst, M/s. SD tech, Naval Dockyard, India.** AUGUST 2022 – AUGUST 2023

- ◆ Streamlined process optimization: Developed a Digital Twin for material handling, resulting in a 42% cost reduction and a 20% increase in material availability.
- ◆ Data-driven insights, Automated stock tracking and procurement alignment using Python and Power BI, enhancing real-time monitoring and reporting.
- ◆ Cross-functional collaboration, coordinated with cross-departmental teams to track purchase requisitions, ensuring production timelines were met.
- ◆ Agile support, supported agile project management by defining development tasks for process improvements.
- ◆ Sustainability initiative, reduced operational downtime by 15% through predictive maintenance on critical equipment, supporting ESG initiatives.

**Financial Reporting for HVAC Infrastructure Projects** DECEMBER 2022- APIRIL 2023

- ◆ Spearheaded a 5-month HVAC project focused on enhancing infrastructure efficiency and reliability.
- ◆ Designed and executed installation blueprints for advanced HVAC systems, meeting project deadlines efficiently.
- ◆ Designed and executed advanced HVAC installations, improving energy efficiency and system reliability.
- ◆ Managed and executed a large-scale HVAC project to enhance infrastructure, meeting compliance and efficiency goals.

**Process Optimization for Material Handling Stations for NAVAL DOCKYARD, INDIA.** MAY 2023 – JULY 2023

- ◆ Created a Digital Twin for material flow and optimized raw material allocation, reducing delays and improving supply chain visibility.
- ◆ Automated inventory tracking to increase stock availability, aligning production timelines and improving scheduling accuracy.

## INDUSTRY PROJECTS

**Developing Digital Dashboards for Manufacturing Operations**

- ◆ Designed and implemented interactive Power BI dashboards with integrated Python scripts to provide stakeholders with real-time analytics on production metrics.
- ◆ Deployed dashboards via Azure, enabling seamless access for production teams and stakeholders.

**Establishment of Sustainable Automated Production Line Glow Cosmetic Company (L'Oréal Group)** APIRL 2024 – JUNE 2024

- ◆ Sustainability-driven automation: Spearheaded the design of a sustainable, automated production line, boosting production capacity by 25% and reducing waste.
- ◆ Supply chain efficiency: Optimized inventory control and raw material flow, decreasing cycle time by 15%.

## EDUCATION

**Master of Science Advanced Industrial Engineering** OCTOBER 2023  
**Technical Hochschule Rosenheim, Traunstein, Germany.**

- ◆ Specialization: Digital Twin, Sustainability, Quality Management, Advanced Automation, Controlling.

**Bachelor of Technology**

**Raghu Engineering College (Autonomous), Visakhapatnam, India.** AUGUST 2019 – JUNE 2022

- ◆ Successfully completed my Bachelor's degree in Mechanical Engineering, Graduated with High Honors – 8.1CGPA showcasing academic excellence & dedication.

## INTERNSHIPS & TRAINING

**Quality Management Intern Ship Building Centre at Naval Dockyard, India** JANUARY 2022 – FEBRUARY 2022

- ◆ Supported master data management for shipbuilding projects, ensuring complete and accurate technical documentation.
- ◆ Developed an internal backlog system for tracking ongoing inspections, improving task visibility for quality teams.

**Automotive Quality Intern at Radha Shyam Automotive PVT. LTD, Visakhapatnam, India** JANUARY 2019 – JUNE 2019

- ◆ Conducted root cause analysis and implemented corrective actions, reducing production defect rates by 20%.
- ◆ Ensured compliance with ISO quality standards through regular audits and assessments.

## PUBLICATIONS

**Improving Performance of vapor Compression Refrigeration System using Magnetic Field.**

- Applied innovative algorithms to analyze refrigeration systems, contributing to published findings in a peer-reviewed journal.  
IJSREM – (ISSN: 2582 – 3930) JUNE 2022

## LANGAUAGES

- ◆ German, English Telugu, Hindi

## CERTIFICATIONS

- ◆ SAP ERP
- ◆ Product Lifecycle Management,Great Learning
- ◆ Data Visualization with Power BI,Cousea