

Mohan Manohar Rao
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Objective:

Enthusiast, self-learner, and process-oriented Data Analyst with a keen interest in the latest technological development such as Analytics and Visualization, with a high affinity towards Data & Business Analytics, seeking a responsible full-time career opportunity in a reputable organization where I can work with experienced professionals and reach my full potential.

Education/Qualification Summary

- ✓ Currently Pursuing BSC in DATA science at IITM.
- ✓ **MSC in Engineering and manufacturing management** from **M.S. Ramaiah school of advanced studies (Affiliated to Coventry university, UK)**, Bangalore in march-2011 **with 63.5%.**
- ✓ **Diploma in Tool and Die engineering** from **Geede Technical Training institute**, Coimbatore in 2006 **Aggregate: 73.5%**
- ✓ **SSLC** passed with **75%** from SFS matriculation school, Alangayam in March 2003

Certification Completed

- ✓ Data Analyst Associate from Databricks.
- ✓ Azure Data Fundamentals – DP900
- ✓ Azure AI Fundamentals – AI900

Experience Summary

- Overall, 11 years of professional experience in Aero engine domain
- Overall, 2+ Years of experience working as Senior Data Analyst.
- Strong Knowledge in Mathematics and statistics for Data Science.
- Carried out Data Analyses in excel and developed Power BI dashboard for Zero Defect initiative team
- Developed Power BI dashboard to monitor supplier quality performance report
- International experience - Deputed to Rolls Royce PLC for 2 years.
- Have experience in building 3+ EDM in Snowflake.
- Have experience in building 2+ Enterprise-wide business impact Power BI Dashboards.
- Understanding the requirements of stakeholders and coordinating with the clients for data mapping.
- Creating STTM for Data warehouse / Reporting solution.

Work Experience:

1) Infosys LTD, Bangalore

Duration : 1st Jan 2021 till date
Current Role : Senior Business/Data Analyst
Client : Roll-Royce Plc and Johnson Controls

Role & Responsibilities

- ❖ Conduct multiple workshop to gather business requirement
- ❖ Create Mapping information in STTM document to deliver EDM solution by discussing with SME.
- ❖ Write Complex Query to Analyze Data.
- ❖ Creating test case for validating raw data ingestion.
- ❖ Creating test case to validate the data in Final Layer table.
- ❖ Work with ETL developer to transform Raw data to deliver EDM Layer solution and do validation for the same.
- ❖ Work with ETL developer to create presentation layer (View) for BI solution
- ❖ Work with Business to validate the report.

Technology: Snowflake, Power BI, Databricks

Programming: SQL, Python (Pandas, NumPy)

2) Rolls-Royce India Pvt Limited, Bangalore

Duration : 11th Sept 2017 to 31st Dec 2020

Current Role : Advanced Manufacturing Engineer

Role & Responsibilities – Advanced Manufacturing Engineer

- ❖ Review and approve Suppliers FAIR.
- ❖ Experienced Manufacturing lead for NPI or high-volume production
- ❖ Develop Manufacturing processes for Complex machined parts and Engine assembly, Fixtures for internal business and suppliers to meet engineering requirements.
- ❖ **FAIR approver** for suppliers.
- ❖ Working with internal business for **zero defect drive**.
- ❖ Carrying out process capability studies.
- ❖ Participate in DFMEA section as **Manufacturing Lead**.
- ❖ Create Technical pack like **Gauge R&R, PFMEA, Control Plan** etc. for Internal **FAIR** and **PPAP** process.
- ❖ Developing new methods for NPI and creating manufacturing stage drawing using UG NX.
- ❖ Generating CMM program using Renishaw Modus 3.5 software.
- ❖ Creating **CAPP structure** in Team center.

Software used: UG NX, Teamcenter, Net inspect, Minitab, Modus 3.5

Significant Achievements/Contributions:

- 1) Designed Shielding fixture to reduce cycle time for dressing weld bead.
- 2) **Carried out Data Analyses in excel and developed Power BI dashboard for Zero Defect initiative team**
- 3) **Developed Power BI dashboard to monitor supplier quality performance.**
- 4) Completed yellow belt certification for developing expression-based template in UG NX.

3) Tata Consultancy Services, Bangalore

Duration : 21st July 2011 till 04th sept 2017

Client Name : Rolls-Royce Plc, Derby, UK

Designation : ITA

Role : Manufacturing Engineer – Technical Lead

Role & Responsibilities

- ❖ Responsible for creating and Maintaining ABOM & CAPP for Engine Assembly
- ❖ Develop and mature method of Assembly for Trent XWB 84K
- ❖ Transfer mature Manufacturing Technical pack to Production
- ❖ Creating PFMEA, Control Plans, FVRA, Inspection planning and other documents required for FAIR Approval for Pre-Production engine Build (Trent XWB-84K)
- ❖ Working closely with Tooling team and ACR planner in developing Assembly methods for development Engines (Trent XWB-97K & Trent 1000-TEN)
- ❖ Process improvements using Lean Six sigma methodology
- ❖ Designing Tool for Engine Assembly and Disassembly
- ❖ Liaise and provide technical support for Fixture Manufacturer in derby.
- ❖ Carrying out Tool Validation.

Software's used: NX 9.0, PDM and Teamcenter

Significant Achievements/Contributions:

- 1) **Completed Green Belt certification for Developing tool to Analysis Interface Design Document**

- 2) Successful completion of FAIR documentation for CAA certification.
- 3) Successful completion of Assembly sequence drawing well within the deadline for development engine.
- 4) Customer appreciated for showing excellent technical skills and innovative ideas on projects carried at onsite.

3) Caparo Engineering India Pvt Ltd, Chennai, Automotive components

Duration : Dec 2007 till October 2009

Designation : CAM programmer and process planner

Role & Responsibilities:

- ❖ Generating 3-axis and 4-axis CAM program for Manufacturing Press tool and Die casting die
- ❖ Creating process plan and stage drawing for CNC, GPM.
- ❖ Attending DFMEA meetings to analyze manufacturing feasibility.
- ❖ Job Scheduling and monitoring.

Software used: Tebis, Work NC.

Significant Achievements/Contributions:

1. Best employee of year for creating error free process plan.
2. Creation of 2D program for negative angles in trimming die using Bull nose cutter.

4) Gplast Pvt Ltd, Coimbatore, Automotive components

Duration : Aug 2006 till July 2007

Designation : Tool Maker Trainee

Role & Responsibilities

- ❖ Responsible for manufacturing Injection mold and Die casting dies from design buy-off till component prove out.
- ❖ Operating GPM, CNC machines to address Assembly issues during Mold & Die prove out.
- ❖ Creation of stage drawing for GPM, CNC, EDM spark and Wire Cut machining.
- ❖ Involved in Die Maintenance.

Software used: AutoCAD 2006, Delcam

Personal Skills:

Comprehensive problem-solving abilities, good verbal and written communication skills, ability to deal with people, willingness to learn, team worker.

The above stated data is true to the best of my Knowledge.

Regards,

Mohan Manohar Rao
Bangalore