

Jashwanth Reddy Earla

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[Portfolio website](#) | [LinkedIn](#)

SUMMARY OF SKILLS AND QUALIFICATIONS

Operating Systems | Windows • Linux

Applications | Microsoft Office: Word • Excel • PowerPoint • Project • AutoCAD • SolidWorks • Visual Studio • GitHub

Programming | • C++ • C • Python • Html

Methodologies | Lean Engineering/Manufacturing, Six Sigma, DMAIC, Kaizen or Continuous Improvement • Python • Control Engineering • Project Management • Ishikawa Diagram.

EDUCATION

Master of Engineering Quality Systems Engineering

2023-2025

Concordia University, Montreal, Quebec

Relevant coursework: *Quality methodologies, Advanced statistics for quality, Project Management, Software quality methodologies, systems engineering, Microprocessors and applications.*

Bachelor of Engineering, Mechanical

2017-2021

Chaithanya Bharathi Institute of Technology, Medak, India

Executive Board member for Chaitanya Kreeda (sports club), Coordinator MECHANICA 2k21

Relevant coursework: *Engineering Mathematics, Programming and Problem Solving, CFD, FEA, Thermodynamics, Machine Design, Production and Operations Management, Operations Research, Supply Chain Management.*

WORK EXPERIENCE

Software Engineer

2022-2023

Hexagon, Hyderabad, India

- Resolved SPF/SDx issues, enhancing system reliability for global clients in Hexagon's PPM and Safety divisions.
- Optimized database operations using SQL and DBMS, improving software service efficiency.
- Conducted thorough analysis of user log files to pinpoint and rectify error root causes, enhancing system stability and user satisfaction.
- Employed critical thinking to troubleshoot complex software problems quickly and effectively.
- Enhanced sales strategies through technical support and teamwork, boosting customer engagement.

PROJECTS

Stellar Classification Using PCA and Machine Learning on the SDSS17 Dataset:

Concordia University, Montreal, QC

- This project delves into the classification of celestial objects, including stars, galaxies, and quasars, using the "Stellar Classification Dataset - SDSS17.
- Implemented PCA using python and classified stellar using different Machine Learning models.

Skills & Core Competencies: *Python, Statistical models, Machine learning, Data Analysis, PCA (principal component analysis), GitHub.*

Optimizing the resolution process for support incidents in IT industry:

Concordia University, Montreal, QC

- In this project we have used six sigma and Implemented the DMAIC (Define, Measure, Analyze, Improve, Control) methodology.
- With help of Six Sigma metrics and analysis using MS Excel we have come through potential solutions for the major Issues.

Skills & Core Competencies: *Six Sigma, Quality management, MS Excel, DMAIC, fishbone.*

Building a Community Centre in Montreal-Nord:

Concordia University, Montreal, QC

- Effectively led diverse team to plan and execute Montreal-Nord community center project, meeting objectives within specified timeline and budget.
- Demonstrated strong stakeholder engagement, risk management, and resource coordination skills, ensuring project success and positive community impact.

Skills & Core Competencies: *Project Management, MS Project, Time & Cost Management.*

Determination of elastic strain energy caused by twinning using 2NN MEAM:

CBIT, Hyderabad, India

- The primary aim of this work is to determine the impact of stress on twinning and validate derived twinning energy by using microstructural studies (SEM).
- Used Python with LAAMPS module for the simulation and analysis of twinning phenomenon.

Skills & Core Competencies: *Python, SEM, LAAMPS, Molecular analysis, Problem assessment and analysis, Time Management.*