

Ali Mirza

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PROFILE

- Dynamic and results-driven professional with an academic background in Industrial Engineering, several years of experience in manufacturing environments, and certified in Lean Six Sigma Green Belt and Project Management. Seeking an engineering role to apply engineering fundamentals and deliver high quality results.

EDUCATION

Purdue University, Bachelors of Science Industrial Engineering
Degree Granted

West Lafayette, IN, USA
May 2023

- Minor in Entrepreneurship & Innovation | Honors List

PROFESSIONAL EXPERIENCE

Descon Engineering LTD.
Industrial Engineer

Remote
January 2023 - June 2023

- Designed and implemented end-to-end solutions, focusing on reducing lead times and improving manufacturing operations such as material flow through the shop floor.
- Applied Lean Six Sigma techniques (VA/NVA analysis), streamlining processes and reducing cycle times.
- Secured stakeholder approval for a critical business case to transition manufacturing facilities, showcasing rapid assessment and problem-solving skills in ambiguous environments.
- Increased manufacturing productivity through advanced workflow and equipment layout analysis, contributing to improved capacity utilization and production scheduling.

Purdue Engineering Project
Data Analyst

West Lafayette, IN, USA
August 2021 - May 2022

- Developed and implemented a fantasy league platform for the NHL, applying technical expertise in data analysis and software tools to create a robot, user-friendly experience.
- Collaborated with development and project teams to optimize data acquisition, modelling, and analysis processes, significantly improving the platform's performance and user experience.
- Created a machine learning algorithm to analyze large datasets and to automate data changes.
- Applied predictive modelling techniques to forecast company metrics and industry trends, using Python and R.

TransCanada Turbines
Component Engineer

Calgary, AB
May 2021 - August 2021

- Led process optimization initiatives, including the implementation of Kanban and 5S, reducing costs and improving inventory efficiency.
- Managed multiple aero-turbine repair projects, focusing on enhancing production planning, scheduling, and resource allocation.
- Utilized ERP systems for procurement and inventory management, streamlining operations and cutting procurement times by 20%.
- Conducted QA inspections and managed component repairs, ensuring adherence to strict manufacturing and quality standards.

SKILLS

- **Certifications:** Lean Six Sigma Green Belt (IISE) | PMP (PMI)
- **Microsoft Office:** Word | Excel | Powerpoint | Teams
- **Engineering Software:** MATLAB, Python, AutoCAD, JavaScript, R
- **Communication:** Cross-cultural collaboration | Leadership management | Conflict resolution