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   West Lafayette, IN, USA
Degree Granted   **May 2023**

- Minor in Entrepreneurship & Innovation | Honors List

PROFESSIONAL EXPERIENCE

Descon Engineering LTD.   **Remote**
Engineering Consultant   **January 2023 - May 2023**

- Designed an end-to-end solution for our client's problem and implemented project management methodologies to plan, execute, monitor, and close the project from beginning to end- accounting for scope, budget, and scheduling.
- Devised a strategic proposal for transitioning manufacturing facilities, demonstrating advanced planning and execution skills crucial for managing complex logistics and supply chain projects.
- Applied lean principles and techniques, such as VA/NVA analysis, to streamline manufacturing processes, resulting in improved cycle and lead times.
- Evaluated and improved manufacturing methods by analyzing work flow, space requirements, and equipment layout. This led to an increase in manufacturing efficiency and a reduction in production lead times.
- Presented and secured unanimous stakeholder approval for a critical business case.

Purdue Engineering Project   **West Lafayette, IN, USA**
Data Analyst   **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   **Calgary, AB**
Component Engineer   **May 2021 - August 2021**

- Managed 100+ aero-turbine repair records, increasing process transparency and insight on resource allocation.
- Led cross-functional teams and managed procurement from manufacturers, cutting procurement times by 20%.
- Contributed to QA and inspection for components, ensuring adherence to quality standards.
- Aided in component repair efforts through NDT processes, heat treatments, and thermal spray procedures.
- Overlooked 7+ projects, enhancing delivery efficiency through effective stakeholder management and meeting all deadlines.
- Implemented Kanban and 5S, optimizing inventory for 500+ produced materials, reducing costs by 25% and improving stock efficiency by 30%.

SKILLS

- **Microsoft Office:** Word | Excel | Powerpoint | Dynamics 365 | Teams
- **Engineering Software:** MATLAB, Python, AutoCAD, SQL, JavaScript, R
- **Professional:** Lean Six Sigma Green Belt (IISE) | PMP (PMI)
- **Communication:** Cross-cultural collaboration | Leadership management | Conflict resolution