

Imaan Sidhu

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Analytical, detail-oriented, creative, and strategic mechanical engineering professional with 4+ years of experience spanning design engineering, systems analysis, and product development and a proven track record driving process optimization, cost reduction, and quality enhancement. Identifies opportunities for growth & change while championing efficiency, innovation, and sustainability.

CORE COMPETENCIES

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| ▪ Mechanical Design | ▪ Fluid Mechanics Knowledge | ▪ Lean Manufacturing Principles |
| ▪ Data Analysis | ▪ Thermal Dynamics | ▪ Quality Control |
| ▪ Project Management | ▪ Stress Analysis | ▪ Continuous Process Improvement |

PROFESSIONAL EXPERIENCE

Engineering Intern | NAVIOS MARITIME HOLDINGS | TOKYO, JAPAN | MAY - JULY 2023

- **Technical Translation & Insight Development:** Converted technical observations during factory tours into comprehensive data-driven insights; enhanced analytical and problem-solving abilities, enabling resolution of engineering challenges.
- **Operational System Optimization:** Conducted assessments of engineering concepts within real-world production settings; leveraged optimization opportunities in complex operational systems, enhancing production processes and quality control.

Manufacturing Engineering Intern | ROLLS-ROYCE CORPORATION | INDIANAPOLIS, IN | JUNE - AUGUST 2021

- **Data Analysis & Reporting:** Spearheaded the creation and presentation of detailed reports using SQL and Power BI, providing critical feedback that led to a 0.3% reduction in production scrap rates; guided key manufacturing tool design decisions,.
- **Production System Audit & Enhancement:** Managed a pivotal project auditing production floor tracking system utilizing Python. Produced analyses that bolstered data integrity and system reliability, streamlining workflow and enhancing production quality.
- **Script Development for Efficiency Improvement:** Developed a sophisticated MATLAB script to address issues in machine reports and reduce error-prone variables; improved production efficiency and assisted in decision-making processes, elevating customer satisfaction and operational excellence.

Packaging Engineering Intern | E&J GALLO WINERY | MODESTO, CA | MAY 2020 - AUGUST 2020

- **Milestone Documentation & Interface Design:** Led a transformative project to revamp milestone documentation within the engineering department, creating a more efficient and user-friendly project management interface. This initiative streamlined project tracking and reporting, leading to improved project execution and team collaboration.
- **Lean Six Sigma Implementation:** Pioneered a data-driven project grounded in Lean Six Sigma principles. This strategic approach prioritized workplace projects based on their impact and efficiency, significantly enhancing operational productivity and reducing waste in the packaging process.

Aerospace Engineering Intern | KIHOMAC INC | LAYTON, UT | MAY - JULY 2019

- **Manufacturing Tool Design & Efficiency:** Orchestrated collaboration between engineering and floor workers to design and construct specialized manufacturing tools; reduced production time and minimized material waste.
- **Warehouse Data Integration & MATLAB Programming:** Led a groundbreaking project to integrate warehouse data into a MATLAB-based program, culminating in a consolidated and more efficient supply management system; enhanced data management greatly streamlined supply chain operations and supported better decision-making.

EDUCATION & PROFESSIONAL DEVELOPMENT

MS in Mechanical Engineering, GPA: 3.66/4.0 | Columbia University | New York, NY | December 2023

BS in Aerospace and Astronautical Engineering, GPA: 3.30/4.0 | Purdue University | West Lafayette, IN | May 2022

TECHNICAL SKILLS

Microsoft Office Suite | Python | Matlab | SQL | VBA | NVivo | Solidworks | Catia | Siemens NX | PowerBI

References available upon request.