Soham Desai

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EDUCATION

Bachelor of Engineering - Mechanical Engineering & Co-op

Ontario Tech University • Oshawa, Ontario, Canada • 2027 • 3.74

SKILLS

Language: C++, Python, HTML, CSS, Javascript, Matlab

Technical Skills: Solidworks, AutoCAD, Microsoft Office, Multisim

EXPERIENCE

Engineering Intern

F AND B SOLUTIONS LIMITED **June 2024 - August 2024, Kampala, Uganda**

- Gained hands-on experience in various engineering tools and techniques to contribute effectively to multiple projects.
- Performed troubleshooting and diagnosis on malfunctioning equipment..
- Labeled, organized and located inventory items in staging areas or on shelves according to quantity, size, or type of material.
- Applied creative problem-solving skills to troubleshoot equipment issues effectively.
- Managed inventory reports and records, showcasing excellent time management to meet deadlines consistently.
- Collaborated effectively with senior engineers, contributing insights and opinions to project teams.

Research Assistant Intern

Ontario Tech University **April 2024 - June 2024, Oshawa, Ontario, Canada**

- Gained experience in editing a textbook by writing content, creating diagrams, and developing visual aids to enhance understanding.
- Assisted with inventory management by organizing, labeling, and maintaining resources for ongoing projects.
- Contributed to research on battery management by collaborating with master's students and professor.
- Created diagrams and visual materials to support both research and instructional content.

PROJECTS

Designing a scissor lift

January 2024 - April 2024

- Designed a scissor lift with a 2m x 1.2m base and a platform height range of 0.5m to 3.7m, capable of lifting 750 kg.
- Modeled and assembled components, including the base, scissor arms, and hydraulic cylinder, ensuring precise alignment and smooth motion functionality.
- Generated detailed engineering drawings with dimensions, tolerances, and assembly instructions for manufacturing.

Designing a Landing Gear

August 2024 - January 2024

- Designed and modeled a 3D SolidWorks representation of an aircraft's main landing gear, ensuring compatibility with common fuselage compartments and doors for interchangeable designs.
- Created detailed CAD documentation, including multi-view drawings with dimensions and tolerances, to facilitate manufacturing.
- Contributed to the virtual prototype by developing motion simulations to demonstrate landing gear deployment and retraction functionality.
- Collaborated within a supergroup to establish standardized spatial constraints and ensured design compliance with shared dimensions.
- Enhanced design with additional features, such as suspension and steering.

INVOLVEMENT

Reactor Simulation Club Member

Ontario Tech University • Reactor simulation club • October 2023 - February 2024

- Working with a professor to design a CANDU reactor model in SolidWorks, creating a detailed 3D model for VR-based training simulations.
- Ensuring precision in component modeling to support realistic, immersive training environments for educational and operational use.
- Contributing to the development of innovative training tools to enhance safety and technical understanding in nuclear reactor operations.

CERTIFICATIONS

Certified SolidWorks Associate