Soham Desai

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EDUCATION

Ontario Tech University   Oshawa, Ontario, Canada
Bachelor of Engineering - Mechanical Engineering & Co-op   Expected May 2027
Cumulative GPA: 3.53
Awards: President's List Fall 2023 | Dean's List Winter 2024
Relevant Coursework: Engineering Design | Programming for Engineers | Concurrent Engineering and Design | Statics |Thermodynamics | Fluid Mechanics | Dynamics | Computational Engineering Applications | Solid Mechanics | Electric Circuits

WORK EXPERIENCE

F AND B SOLUTIONS LIMITED   Kampala, Uganda
Engineering Intern   Jun 2024 – Aug 2024
- Improved **inventory management** by designing an Excel sheet and implementing standardized labeling of spare parts, which prevented items getting misplaced and additionally resulted in 20% faster repair times.
- Diagnosed machine malfunctions through troubleshooting strategies, leading to a reduction in repair time.
- **Collaborated** with technicians to troubleshoot equipment issues, ensuring timely repairs, and maintaining adherence to schedules

Ontario Tech University   Oshawa, Ontario, Canada
Research Assistant Intern   May 2024 – Jun 2024
- **Collaborated** with graduate students to complete **technical diagrams and content** for a textbook specific to Battery Management Systems.
- Organized and maintained lab inventory, ensuring accurate labeling and availability of resources for ongoing research.

UNIVERSITY PROJECTS

Scissor Lift   Feb 2024
- **Designed and modeled** a 3D SolidWorks assembly of a scissor lift consisting of 433 individual parts and assemblies.
- Generated detailed engineering drawings with dimensions, tolerances, and assembly instructions for manufacturing.
- Contributed to the virtual prototype by developing motion simulations to demonstrate scissor lift extension and retraction.

Landing gear   Sep 2024
- **Designed and modeled** a 3D SolidWorks assembly representation of an aircraft's main landing gear consisting of 215 individual standard parts.
- 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.

ACTIVITIES

Reactor Simulation Club   Ontario Tech University
Reactor Simulation Club Member   Oct 2023 - Present
- 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.

SKILLS

Technical Skills: SolidWorks | Fusion 360 | Microsoft Office | MATLAB | Python | C++ | Multisim
Certifications & Training: SOLIDWORKS CAD Design Associate (CSWA) | Advanced Manufacturing | WHIMIS