SALEEM IDRISS

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SUMMARY OF SKILLS AND QUALIFICATIONS

Operating Systems | Windows 365 • Mobile
Applications | Word • Excel • PowerPoint
Programming | C++
CAD | SolidWorks-Intermediate • Fusion-Intermediate • MATLAB-Beginner • AutoCAD-beginner • Sketchup-Intermediate
Languages | English–Fluent • French– Beginner • Arabic– Fluent
Licenses & Certifications | Valid Canadian driving license

EDUCATION

Bachelor of Engineering – Mechanical Engineering **2021 - 2027**
Concordia University, Montreal, QC
Relevant Courses: Mechanics of Material, Thermodynamics, Machine drawing and design.

Work Experience

Mechanical and Industrial Engineering Intern **01/2024 – 05/2025**
ORA Graphene Audio Montreal, Quebec
A manufacturing company that creates headphone diaphragm membrane entirely out of graphene oxide.
Objective: Plan future factory expansions, Legitimize and formalize the company's inner workings, and improve manufacturing flow. Projects were done individually and in teams of 2.

- Authored multiple standard operating procedure (SOP) documents.
- Organized preventative maintenance and calibration tasks for all necessary equipment and station.
- Developed plans for an industrial expansion of the factory floor. Ensuring a clean, efficient, and safe flow of the assembly line.
- Created general and specific movement risk models using geometry and trigonometry to analyze and reduce injury risk of employees.
- Designed sheet metal mold trays to effectively protect expensive and fragile equipment.
- Designed and planned to modify the measurement station to shift from batch process manufacturing to continuous.
- Designed and 3D printed various components, such as a light mount and a temporary dishwasher component replacement.

Core Competencies: Industrial Design, **Fusion**, **Documentation**, Factory risk assessment, Time Management,.

Notable extracurriculars

Team Co-Captain **06/2024 – 05/2025**

Concordia Concrete Canoe Team/CSCE, Montreal, Quebec

Objective: Lead a team of 30 engineers and other specialties to build a 5.6-meter-long canoe out of concrete. Manufacturing and logistics are the biggest challenge in this competition where great leadership skills are required to lead a creative team and find clever solutions for difficult problems.

- Design Management: Led the creation of an optimized hydrodynamic canoe design, the efficient building of the mold, and the testing of the best concrete mix for performance.
- Financial and Administrative Management: Coordinated logistics for canoe pouring, secured funding, and maintained team continuity.
- Competition Management: Led the project presentation to judges and 200 competitors, the writing of the project report, the building of a display, and the training of paddlers for the race.
- **Improvements**: Doubled efficiency, refined geometric design, streamlined mold construction, enhanced competition preparation.
- **Results**: Passed 50% of the competitors. Won the "Innovative construction technique" award. Laid the groundwork for future generations, since we were an infant team.

Core Competencies: Leadership, **Project Management**, Problem solving, Efficiency, Time Management, Design.

Hull Design and Structural Analysis **07/2025 – 05/2026**

Concordia Concrete Canoe Team/CSCE, Montreal, Quebec.

- Designed the geometry of our concrete canoe.
- Performed structural analysis on the design, ensuring that no failure occurs.

Core Competencies: SolidWorks, **Modeling, MATLAB.**

Braking Lead **03/2023 – 02/2024**

Concordia Concrete Toboggan Team/CSCE, Montreal, Quebec

Objective: Design and build a braking system capable of safely halting a 1000lb toboggan full of riders.

- Led a team in the design, development, and manufacturing of a fully operational braking system. Improved activation by 100%
- Conducted stress analysis and other computations to ensure the braking system met performance, safety, and engineering specifications.
- Authored a comprehensive technical report detailing the design, functionality, and stress analysis of the braking system.

Core Competencies: Design, Problem assessment and analysis, Manufacturing, SolidWorks.

INTERESTS

Experience Abroad	I have been to 5 out of the 7 continents, gaining exposure to diverse cultures, architectures, and perspectives.
Sports	basketball (2014-2017), powerlifting (2017-present), snowboarding (2021- present).
Passions	I am an advanced piano player, demonstrating discipline, focus, and attention to detail.