NOAH ELSAYED

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EDUCATION

BSc in Mechanical Engineering, Minor in Digital Engineering **September 2022 – Present**
University of Calgary, Alberta

- Excelled in courses such as Behavior of Liquids Gases & Solids and Fluid Mechanics.
- Achieved a perfect 4.0 GPA across three python courses.
- Certified to use machine shop equipment such as the lathe and mill.
- Expected to graduate in 2027.

RELEVANT EXPERIENCE

Production Engineering Summer Student **May - August 2024**
Whitecap Resources Ltd, Calgary, Alberta
Developed a LSTM neural network to help size artificial lift in wells while packaging into an easy-to-use application. Consolidated and sorted terabytes of MMV data and displayed using Tableau to aid visual understanding amongst coworkers. Assisted in field operations and represented the company at the 2024 Saskatchewan Oil & Gas Show. Delivered an introductory machine learning course to employees.

Engineering Summer Student **May - August 2023**
BRE Group, Calgary, Alberta
Orchestrated a complete website redesign, enhancing user experience and modernizing online presence. Developed crucial aspects of an intensive CCS and CCUS course, establishing creative problems. Created and digitized intricate figures to be used in courses taught globally. Co-authored and published an article on the ideal complexity and common pitfalls of reservoir simulation models.

EXTRACURRICULAR ACTIVITIES

Powertrain Subteam Member **October 2023 – Present**
UCalgary Racing
Participating in the development of a two-thirds scale Formula style car, with the goal of competing against other schools. Responsible for key design and manufacturing of the powertrain system, leading motor controller placement and mount development. Generated vital safety information using SolidWorks FEA and attended the Michigan 2024 FSAE Electric competition. Currently developing the 2025 car's cooling system, creating simulation models and verifying designs.

SKILLS

Technical: Linux, GitHub, Arduino, and Raspberry Pi.
Programming: Python, MATLAB, C++, SQL, Tableau, HTML, and GitHub.
Computer: Windows, Linux, MacOS, Arduino, and Raspberry Pi.
Design: SolidWorks, Inventor, Revit, Fusion, AutoCAD, Photoshop, Resolve.
Languages: Fluent in English and Arabic.

LEADERSHIP

Rotary Engine Generator **March – April 2024**
Directed a team of four engineers in successfully modelling, simulating, and presenting a generator powered by an innovative rotary engine design which demonstrated significant efficiency increases compared to the traditional Wankel engine.

Prototype Games Console **February – April 2024**
Organized a small team which developed an innovative handheld gyroscopically controlled games console, being named a standout amongst similar projects.