

DIOGO GUAITOLINI

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SKILLS

- **Programming and Computer Design Skills:** Python, HTML, SQL/SQLite, Microsoft Office, GitBash, Anaconda/Miniconda, GUI, C/C++, SolidWorks, Fusion360, PowerBI, Server Troubleshooting
- **Machining and Technical Skills:** CNC Conventional Milling, CNC Conventional Lathe, 3D Printing, Radial Arm Drill Press, Water Jet Cutting, Angle Grinding
- **Professional Skills:** Time Management, Organization, Attention to Detail, Critical Thinking, Decision-making, Collaboration, Financial Acumen

EDUCATION

Bachelor of Science in Mechanical Engineering
University of Calgary

2021 – Present

- Minor in Digital Engineering
- GPA: 3.93/4.00
- Dean's List, 2021/2022 and 2022/2023
- President's Admission Scholarship and two International Undergraduate Award for academic merit

PROJECTS

InnovatExperience – Product Development and Importation Process

May 2023 - Present

- Lead end-to-end business venture, overseeing product development, manufacturing, importation, and online sales, honing entrepreneurial and project management skills
- Coordinate all aspects of the business, from ideation to marketing, gaining hands-on experience in entrepreneurship and a deep understanding of the business process

Drivetrain Testing - Schulich Off-Road Team

Sep 2022 – Sep 2023

- Spearheaded the development of the inaugural drivetrain for the Schulich Off-Road Team's competition vehicles
- Collaborated closely with experienced engineers to design, test, and validate drivetrain components, ensuring the reliability and performance of the car by conducting rigorous testing and validation procedures

Hydro Energy Storage System – ENME 341 Final Project

Mar 2023 – Apr 2023

- Designed and analysed a dual-purpose pumped hydro energy storage system, serving as both an energy storage solution and a water supply source for local irrigation. This versatile system utilizes a nearby river during off-peak hours to store energy by pumping water into an upper reservoir, later releasing it through a generation turbine during peak hours to generate electricity.
- Conducted in-depth theoretical analysis and optimization, including calculations for power requirements, material selection, pipe diameter determination, and force analysis on gates and dam walls. The project's outcomes showcase a practical solution for sustainable energy generation in rural settings.

WORK EXPERIENCE

Vendor

May 2023 – Jul 2023

DeVry – Calgary, AB

- Worked independently in a small team of two conducting visits to more than 20 retailers consistently meeting or exceeding project milestones and client expectations
- Developed innovative solutions to improve plant displays and enhance overall brand visibility, resulting in increased customer engagement and sales
- Collaborated closely with store personnel to address issues, providing effective solutions and maintaining strong working relationships

Accounts Manager

Dec 2020 – Aug 2021

Grão Forte Agrícola e Pecuária – Brazil

- Empowered strategic decision-making by producing detailed monthly reports for five company-managed farms, utilizing data analysis skills with Inttegra (the company's custom software)
- Achieved a 15% reduction in monthly spending by effectively controlling budgets and expenses
- Monitored supply inventory, ordering necessary tools and products on a weekly basis to maintain a clean and organized work environment

EXTRACURRICULAR ACTIVITIES

VP Communications

May 2023 – Present

Alberta Student Energy Conference (ASEC) – University of Calgary

- Lead communication strategies to promote ASEC's events, resulting in increased engagement and participation from students and industry professionals.
- Manage all internal and external communications channels, ensuring consistent messaging and timely dissemination of information.
- Create compelling marketing materials, including brochures, effectively conveying ASEC's value proposition and attracting high-profile industry sponsors.

Drivetrain Team Member

Sep 2022 – Sep 2023

Schulich Off-Road Team – University of Calgary

- Handled overall projects related to the implementation and maintenance of the drivetrain, from the designing of its components until its assembly in the car
- Collaborated with students and other sub-teams to develop the most efficient and reliable automobile, and assisted in planning to have a working car in 8 months
- Gained hands-on experience with a range of tools and equipment, honing practical skills in problem-solving and precision engineering

Project Manager

May 2019 – Aug 2021

Interact – Rotary Family

- Executed 10 successful projects, utilizing detailed reports to measure project performance and identify opportunities for improvement
 - Spearheaded management of philanthropic initiatives, ensuring adherence to strict budgetary constraints
- Developed and organized tasks for a team of 20 volunteers, fostering a dynamic and efficient work environment to ensure timely completion of assignments