Yordanos Keflinkiel

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EDUCATION

Ontario Tech University — Oshawa, ON
BEng (Hons) in Mechanical Engineering — *Sept 2022 - present*

- Relevant Coursework: Engineering Design (A-), Fluid Mechanics (A-), and Statics (A)

HIGHLIGHTS OF QUALIFICATIONS

- Solid foundation in mechanical engineering principles, reinforced through hands-on CAD design and technical project leadership.

- Proficient in Python, C++, Linux, and embedded systems programming; experienced with simulation tools and engineering scripting workflows.

- Skilled in interdisciplinary collaboration across mechanical, software, and electrical domains in academic and extracurricular engineering teams.

- Effective team collaborator with experience in agile workflows, design reviews, and tackling engineering problems through group effort.

- Demonstrated leadership and communication skills through mentoring, outreach, and coordination roles promoting equity and diversity in STEM.

PROJECT EXPERIENCE

Nuclear Simulator Research Group — April 2025 – Present
CAD Modeling and Design Member

- Contribute to the design of a small-scale CANDU reactor for educational purposes.

- Currently developing the CAD model of the fuel mechanism and fuel channel of a CANDU reactor.

- Enhance the model's compatibility for simulation accuracy, ensuring optimal performance in various scenarios.

- Collaborate with interdisciplinary teams such as reactor physics, and control systems to ensure model integration.

Women in Engineering — April 2025 – Present
Director of Marketing

- Develop and manage consistent branding and content across social platforms like Instagram and Discord.

- Work with event teams to produce promotional materials and manage registration links.

- Capture and distribute event photos and videos for real-time updates and archival use.

- Plan social media schedules and pitch new content ideas to increase engagement.

Rocketry Team — Oct 2024 – Present
Propulsion Department Systems Member

- Conduct research on rocket propulsion, focusing on liquid and hybrid systems to inform design decisions.

- Investigate materials for combustion chambers and high-stress components under different conditions.

- Build foundational propulsion knowledge through technical sessions and independent study.

- Support technical documentation and participate in early-stage design meetings.

Robotics Team — Oct 2024 – Apr 2025
Software/Programming Team Member

- Built foundational skills in embedded systems and robotics software through hands-on learning.

- Participated in code reviews and meetings to understand system architecture.

- Collaborated with the team lead implement the robotics team's website, enhancing team visibility and public outreach.

Scissor Lift Design Project
Project Lead

- Design a CAD model of a scissor lift using SolidWorks, applying engineering principles and precise calculations.
- Perform structural and functional analyses to ensure safe and stable operation under various loads.
- Lead a collaborative team in producing technical documentation, including drawings and functional simulations.
- Run simulations to validate design performance and ensure compliance with project requirements.
- Applied engineering calculations and design standards to meet performance requirements.

Linux System Backup and Monitoring Script
Group Lead

- Lead a team of three in building an automated Linux-based backup system with real-time file monitoring.
- Facilitate planning sessions to define scope, assign responsibilities, and maintain project alignment.
- Implement real-time alerts via Gmail SMTP notifications to enhance system transparency and reliability.
- Configure Cron jobs for scheduled tasks and establish a retention policy for efficient storage use.

WORK EXPERIENCE

Ambassador Program Assistant   Sept 2024 – Apr 2025
Ontario Tech University   *Oshawa, ON*

- Led the Ambassador Program, empowering participants to assume leadership roles within the university community.
- Maintained internal records and internal communications using Excel and databases.
- Tracking participation and enhancing engagement through personalized outreach and targeted initiatives.
- Facilitated training workshops, equipping students with the necessary skills and knowledge for success within the program.
- Contributed to interdepartmental team-building, fostering collaboration and strengthening relationships across departments.

TECHNICAL SKILLS

Proficient Programming Languages: C++, Python, ARM Assembly, Linux

Developer Tools: Visual StudioD, VS Code, IntelliJ, CLion, PyCharm, React

Applications: Microsoft Office (Word, Excel, PowerPoint), Google Suite, MATLAB, SolidWorks, ANSYS, Blender