

Yordanos Keflinkiel

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EDUCATION

Ontario Tech University

BEng (Hons) in Mechanical Engineering

Oshawa, ON

Sept 2022 - present

- Relevant Coursework: Engineering Design (A-), Fluid Mechanics (A-), and Statics (A)
- CGPA: 3.1

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.
- Designed CAD models of a CANDU reactor's fuel mechanism using SolidWorks and Blender.
- 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

- Researched hybrid and liquid propulsion systems to guide early-stage design.
- Analyzed materials for combustion chambers and high-thermal-stress components.
- 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

- Gained hands-on experience in embedded systems and robotics architecture.

- 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

Ontario Tech University

Sept 2024 – Apr 2025

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 Studio VS Code, IntelliJ, CLion, PyCharm, React

Design and Simulation: SolidWorks, ANSYS, Blender, MATLAB

Applications: Microsoft Office (Word, Excel, PowerPoint), Google Suite