

# Yordanos Keflinkiel

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## EDUCATION

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### Ontario Tech University

*BEng (Hons) in Mechanical Engineering*

Oshawa, ON

*Jan 2025 – present*

- Coursework includes Engineering Design, Fluid Mechanics, and Statics
- Involvement: Robotics Team, Rocket Team (Propulsion Systems).

## WORK EXPERIENCE

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### Ambassador Program Assistant

*Ontario Tech University*

Sept 2024 – Apr 2025

*Oshawa, ON*

- Provided strategic leadership by organizing and facilitating workshops on anti-racism and equity under the RISE Program, engaging over 50 student leaders.
- Mentored and coached student volunteers in the Ambassador Program, enabling them to take on leadership roles within the university community.
- Managed the student volunteer database, tracking participation and improving engagement through personalized outreach and targeted programming.
- Helped in planning and execution of campus events, fostering collaboration among departments to ensure successful outcomes.

### University Tour Guide

*Ontario Tech University*

Sept 2022 – Apr 2024

*Oshawa, ON*

- Delivered personalized tours for groups of 3-5, highlighting university features and benefits.
- Responded to email inquiries and maintained tour bookings.
- Participated in open-house events and provided insights into student life and university programs.

## HIGHLIGHTED PROJECTS

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### Scissor Lift Design Project (Project Lead) | *SolidWorks, Engineering Design*

- Developed a comprehensive CAD model for a scissor lift, incorporating precise engineering calculations and design principles.
- Conducted structural and functional analyses to ensure safety, stability, and reliability under operational loads.
- Collaborated with a team to generate detailed engineering documentation, including technical drawings and material specifications.
- Utilized SolidWorks for 3D modeling and simulations, ensuring compliance with project specifications and deadlines.

### Linux System Backup and Monitoring Script (Group Lead) | *Bash, Gmail SMTP, Cron*

- Led a team of 3 to design and implement an automated backup system with real-time file monitoring.
- Facilitated team discussions to define project requirements and delegate tasks effectively.
- Developed notification system to enhance usability and maintain data integrity.
- Scheduled daily backups and established a retention policy for efficient storage management.

INVOLVEMENT

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**Nuclear Simulator Research Group**  
*CAD Modeling and Design Member*

April 2025 – Present

- Collaborating with the research team to design a CANDU reactor model in SolidWorks, supporting both simulation and 3D printing of components for a physical prototype.
- Supporting interdisciplinary coordination with teams focused on fluid dynamics, reactor physics, and control systems for cohesive model integration.

**Women in Engineering**  
*Director of Marketing*

April 2025 – Present

- Create and manage social media content across platforms like Instagram and Discord, maintaining brand consistency.
- Collaborate with event teams to develop and share promotional materials; manage event links and registrations.
- Capture, organize, and distribute event photos and videos for real-time and post-event coverage.
- Develop social media posting schedules and propose new content ideas to boost engagement.

**Rocketry Team**  
*Propulsion Department Systems Member*

Oct 2024 – Present

- Conducted research on propulsion systems to help development of liquid/hybrid rocket systems.
- Designed and ran simulations to evaluate system performance under varying pressure and temperature conditions.
- Contributed to designing and optimizing rocket propulsion systems, ensuring compliance with safety and efficiency standards.
- Participated in technical discussions and documented system requirements to improve system reliability.

**Robotics Team**  
*Software/Programming Team Member*

Oct 2024 – Apr 2025

- Learned and contributed to developing embedded software solutions for robotics projects, focusing on control and functionality.
- Designed and tested robotic systems, enhancing team performance in competitions.
- Assisted in designing and maintaining the team’s website to improve accessibility and promote team activities.

TECHNICAL SKILLS

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**Proficient Programming Languages:** C++, Python, Bash, ARM Assembly, Linux  
**Developer Tools:** Visual Studio, VS Code, IntelliJ, CLion, PyCharm, React  
**Applications:** MS Office Suite, Google Suite, SolidWorks, Blender, MultiSim, Xilinx XPower, Ubuntu