

Yordanos Keflinkiel

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EDUCATION

Ontario Tech University

BEng (Hons) in Mechanical Engineering

Oshawa, ON

Jan 2025 – present

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

Ontario Tech University

BEng (Hons) in Software Engineering

Oshawa, ON

Sept 2022 – Dec 2025

- Final Term GPA: 3.80, CGPA: 3.1
 - * Fall 2024 Dean's List and President's List
 - * Key Interests: Computer Architecture, System Programming, Data Systems

WORK EXPERIENCE

Engagement Program Assistant

Sept 2024 – Apr 2025

Ontario Tech University

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

Sept 2022 – Apr 2024

Ontario Tech University

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.

PROJECTS

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.

Insurance Database System (Project Lead) | *Node.js, MySQL, Express.js*

Nov 2024 – Dec 2024

- Led a team of 4 developers to design and implement a dynamic insurance management system.
- Facilitated communication between team members, ensuring clear understanding of tasks and goals.
- Delegated responsibilities, monitored progress, and resolved conflicts to meet project deadlines.
- Oversaw the development of secure authentication and session management systems.
- Integration of Google Translate API to support multiple languages.

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

Nov 2024

- 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.

ACTIVITIES

Ontario Tech Rocket Team

Oct 2024 – Apr 2025

Propulsion Department Systems Member

- Conducted research on high-strength tank materials to optimize weight and durability in propulsion 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.

Ontario Tech Robotics Team

Oct 2024 – Apr 2025

Software/Programming Team Member

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

TECHNICAL SKILLS

Programming Languages: C++, Python, Bash, ARM Assembly

Developer Tools Visual Studio, VS Code, IntelliJ, CLion, PyCharm, React

Applications: MS Office Suite, Google Suite, SolidWorks, Blender, MultiSim, Xilinx XPower, Ubuntu