

Daniel Khataiepour

647-989-7561 | dkhataie@uwaterloo.ca | [linkedin.com/in/Daniel](https://www.linkedin.com/in/Daniel)

EDUCATION

University of Waterloo

Bachelor of Applied Science (B.A.Sc.) in Electrical Engineering

Waterloo, ON

Sept 2023 – Present

EXPERIENCE

WATERLOO EXPERIENCE ACCELERATE PROGRAM CO-OP

Jan 2023 – Apr 2023

University of Waterloo/Microsoft

- Managed the development of a comprehensive business plan as the group's lead member.
- Devised optimal financial strategies and generated innovative business concepts to enhance the project's success.
- Gained Proficiency in AI technology, passing Microsoft AZ-900 and AI-900 exams, committed to technical growth.
- Collaborated with students across interdisciplinary work environments to achieve project goals.
- Efficiently managed a team of five, organizing weekly group meetings and timelines for productive teamwork.
- Achieved **outstanding performance** by excelling in teamwork, time management, and on-time task completion.

AUTOMOTIVE TECHNICIAN GRADE 12 CO-OP

Sept 2021 – Feb 2022

NewRoads Mazda

Newmarket, ON

- Replaced and balanced new or used tires to maintain on-road safety.
- Examined and inspected damaged vehicles, estimating repair costs prior to performing service.
- Collaborated with veteran technicians for optimal integration.
- Gained expertise in automotive systems for efficient and precise repairs.
- Maintained detailed repair records and rigorously tested controls to meet state vehicle standards.

PROJECTS

BREATHALYZER | *Microcontroller, C++, Circuit Design, 3-D Printing*

Sept 2023 – Present

- Designing portable STM32 Breathalyzer for precise alcohol detection.
- Creating a custom 3-D printed case for the Breathalyzer, blending style and durability.
- Programming with STM32 F401 RET6 with STM32 IDE for circuit control, including alcohol detection.
- Currently drafting a comprehensive design document and project proposal for presentation to prospective clients.
- Coordinating teams for seamless hardware-software integration, ensuring product success.

FUEL CELL BATTERY BOAT | *SolidWorks, Soldering, 3-D Printing, Wiring*

May 2023 – July 2023

- **Designed and built a fuel cell battery-powered boat**, showcasing innovation in sustainable transportation.
- Gained in-depth knowledge of fuel cell battery technology, fostering a strong understanding of its functionality.
- Enhanced document writing skills by maintaining comprehensive project records.
- Worked with SolidWorks for boat design and executed handcrafting.
- Efficiently managed project timelines with a Gantt chart.
- Secured second place among 11 teams and won the **Best Overall Boat Award**, highlighting design excellence.

HEAT & SMOKE DETECTOR | *Microcontroller, C++, Circuit Design, Wiring*

Sept 2022 – Dec 2022

- Designed a small-scale heat and smoke detector for a semester project.
- Created a dual-function detector for temperature and smoke alerts using a single buzzer.
- Used STM32 F401 RET6 Microcontroller and STM32 IDE to program circuits, buzzer, and smoke detector.
- Written two in-depth reports analyzing project evaluation and its impact on global warming.
- This project will progress with smoke detection range expansion and a user notification app.

QUALIFICATIONS, SKILLS & ABILITIES

Languages: C++, Python, Java, Processing.

Technical Skills: VS Code, Visual Studio, AutoCad, SketchUp, SolidWorks, Altium, STM32 IDE, Git Commands.
Proficient in Google Workspace and Microsoft Office.

Responsible, organized, reliable, and easily able to adapt to new situations.

Experience with Soldering, Circuitry, Breadboards, 3-D Printing, and Wiring.