Daniel Khataiepour

647-989-7561 | dkhataie@uwaterloo.ca | linkedin.com/in/Daniel | www.danielkhataiepour.com | github.com/kataiepor

Education

University of Waterloo — Waterloo, ON
Bachelor of Applied Science (B.A.Sc.) in Electrical Engineering — *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 — 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

- Designed a portable STM32 Breathalyzer for precise alcohol detection.
- Creating a custom 3-D printed case for the Breathalyzer, blending style and durability.
- Programmed with STM32 F401 RET6 with STM32 IDE for circuit control, including alcohol detection.
- Drafted 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/C++, Python, Java, JavaScript, HTML, CSS, MATLAB.
Technical Skills: Altium Designer, AutoCad, SolidWorks, Arduino IDE, Git Commands, STM32 IDE.
Design Skills: Soldering, Circuitry, PCB Design, Breadboards, 3-D Printing, Troubleshooting, and Wiring.
Proficient in Google Workspace and Microsoft Office.
Responsible, organized, reliable, and easily able to adapt to new situations.