

Eric Khumbata, T.T.

780-245-1809 | eric.khumbata@gmail.com | LinkedIn: [eric-khumbata](#)

Skills

Languages: C#, HTML, CSS, JavaScript, SQL, PHP, Python, C/C++, Java, VHDL, PLC Programming

Technologies: REST API, Ajax, Git, Linux, Arduino, Microcontrollers, PowerShell, ROS

Misc: ServiceNow, Active Directory, SCCM, Databases, Data Structures and Algorithms

Education

University of Alberta

Sep 2021 – Apr 2024

Computer Engineering BSc (Traditional)

Northern Alberta Institute of Technology

Jan 2019 – Dec 2020

Computer Engineering Technology – Dean's Honor Roll

Work Experience

Spartan Controls

Service Desk Analyst

May 2019 – Aug 2023

- Wrote production scripts using C# & PowerShell and deployed company wide affecting 1300 people
- Designed, developed, and implemented an inventory management system using barcoding
- Had a 99.7% ticket resolution across ~3000 tickets for software and hardware problems
- Excelled at communication and problem solving while working with interdisciplinary teams

EllisDon

Field Engineer

May 2018 – Aug 2018

- Worked in a team of 15 people on Edmonton's Valley Line LRT expansion
- Learned how to read civil engineering documents and specifications such as drainage, roadways, and architectural drawings

Projects

S.M.R.T. Gym

- Developed a device that would track a users gym workouts using a Raspberry Pi and an Arduino
- Designed, tested, and programmed custom hardware using C/C++ and Python
- Built a local website using ASP.NET and built a custom SQL database to store all data generated by hardware in real time

Adventures In Duckietown

- Used the Robot Operation System to autonomously operate robots and apply self-driving techniques
- Built autonomous systems to perform tasks such as: follow the leader, stop detection, lane follow
- Leveraged concepts such as: machine learning, computer vision, navigation, control, kinematics

SolarSpy

- Created an SMS monitoring service for a solar farm powered by Raspberry Pi Pico W
- Collected power and UV data from a solar panel and reported the information back to the user via SMS at scheduled intervals or when prompted

Volunteering

Hackathon Director – Computer Engineering Club

Sep 2022 – Apr 2024

- Director for CompE Club's two hackathons, HackED Beta (200 people) and HackED (600 people)
- Responsible for accruing and managing over \$23,000 worth of funds
- Assembled a cabinet of volunteers for different areas of the event and assisted them in their roles
- Organized and led weekly meetings to meet milestones, deadlines, and deliverables
- Connected with provincial government to bring more attention and inspiration to the event

President – Computer Engineering Club

Sep 2023 – Apr 2024

- Represented the best interests of all CompE students at the University of Alberta
- Part of planning all major CompE and engineering events (HackED, Career++, Mentorship Program)
- Contributed to club growth and continuous development of all incoming students