

SAM LEADER

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EDUCATION

University of Alberta

Bachelor of Science in Electrical Engineering Co-op

Class of 2026

Edmonton, AB

EXPERIENCE

Camp Oselia Children's Camp

Groundskeeper

Summer 2021, 2022

Lake Wabamun, AB

- Mowed grass, chopped wood, and other general maintenance.
- Assumed the duty of caretaker while they were absent, which included helping renters and collecting garbage.
- Helped watch kids and run activities when the camp was short staffed.

PROJECTS

samleader.com | HTML/CSS, JavaScript

- Developed a personal website to showcase some of my personal projects and to practice web dev.

Software Defined Radio (SDR)

- Built an antenna to receive audio signals transmitted by NOAA satellites passing overhead.
- Decoded the audio using specific software into an image taken by the satellite.
- Researched materials, techniques, and antenna types to improve signal reception and image quality.

Discord Bot | JavaScript

- Worked with a friend to built a general purpose Discord bot using discord.js.
- Main function was to create a Markov chain of text to emulate a user's messages based on chat logs it gathered.
- Other functions included sending Leetcode questions when prompted by the user.

Zenith Calculator | Python

- Created a program that finds the zenith locations for every body in the solar system using NASA's SPICE toolkit.
- Currently working on developing it into a web app with a GUI hosted on my website.

SKILLS

Languages: English, French

Programming: MATLAB, HTML, CSS, JavaScript, Python, \LaTeX

Technical Skills: Git/Github, Microsoft Office

EXTRACURRICULAR

59th Greenfield Venture Company

President

Fall 2020 – Fall 2021

- Directed Company meetings, recorded minutes, and planned activities and volunteer opportunities for the Company.
- Before being elected president, I was the Company's secretary from 2017 – 2020.
- Attended the World Scout Jamboree in West Virginia in 2019, representing Canada.

VEX Robotics Club

Fall 2017 – Spring 2020

- Built and programmed robots to participate in VEX robotics competitions.
- Placed 9/43 in the Alberta Provincial Championship in 2018.

AWARDS, ACCOMPLISHMENTS & CERTIFICATIONS

Alexander Rutherford Scholarship - 2021

DELFB2 - 85.5/100

WHMIS Certification - 2021

INTERESTS

Radio Communications, Programming, Networks, Astronomy, Scouting, Music