

# SAM LEADER

✉ [sleader@ualberta.ca](mailto:sleader@ualberta.ca)  [linkedin.com/in/sam-leader/](https://www.linkedin.com/in/sam-leader/)  [samleader.com](https://samleader.com)

## EDUCATION

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### University of Alberta

Bachelor of Science in Electrical Engineering Co-op

Class of 2026

Edmonton, AB

#### Relevant Coursework:

- Computer Programming for Engineers

## EXPERIENCE

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### 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

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**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 of the bot was to create a Markov chain of text to emulate a user's messages based on chat logs gathered by the bot.
- Other functions included sending Leetcode questions when prompted by the user.

## SKILLS

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**Languages:** English, French

**Programming:** MATLAB, HTML, CSS, JavaScript,  $\LaTeX$

**Technical Skills:** Git/Github, Microsoft Office

## EXTRACURRICULAR

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### 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

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Alexander Rutherford Scholarship - 2021

DELTA B2 - 85.5/100

WHMIS Certification - 2021

## INTERESTS

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