

# YOUSSEF SOLIMAN

Allen, Texas | youssouf.m.soliman@gmail.com | +1 (469)-318-2721 | linkedin.com/in/youssofsoliman

## EDUCATION

Colorado School of Mines, Golden, CO

May 2029

B.S. in Electrical Engineering | Undergraduate GPA: Not yet available | Planning on a Master in EE

Allen High School, Allen, TX | GPA: 3.98/4

May 2025

## WORK EXPERIENCE

Colorado School of Mines, Computer Science Front Desk, Golden, CO

Sep 2025 - Present

- Collaborated with the CS Department and was responsible for **administrative** and customer service duties such as data entry, assisting with marketing material, and being the point of contact for others.

## PROJECTS

- Thermocouple Reading Device V1 (TRD-1):** Designed and produced a temperature sensor using Altium for a high temperature (**200°C**) custom oven for baking race car carbon fiber parts. Prevented the aerodynamics team from using the electric department's multimeters as heat sensors.
- Custom Temperature Sensor App:** Programmed and engineered a temperature monitoring application by utilizing Arduino sensors (C++), **Swift** for the iOS UI, and a **python-based server** for real-time visualization and data logging. Removed the need to constantly get up and check the thermostat.
- Arduino Nano in Altium:** Designed an Arduino Nano from scratch in Altium.
- GUI Calculator written in C:** Utilized **GLFW**, an OpenGL library to create a very efficient and functional **GUI** calculator with all the basic operators using C.
- AWS Custom VPN:** Utilized AWS to develop a personal VPN for personal and to familiarize myself with AWS and its potential applications.
- Unfinished Unity Game:** Developed a simple 3D platformer coded in C# with multiple game functionalities.

## EXTRACURRICULARS

Mines Formula SAE, Electrical Engineer, Golden, CO

Aug 2025 - Present

- Collaborating with a group of engineers and designing the **low voltage** electronics for a custom-built race car that goes from **0-60** in under **4 seconds**.
- Currently in the process of mastering **Altium** and finishing a heat sensing PCB that would permit the aerodynamic department to tell the temperature of the interior of their custom-built carbon fiber oven.
- Responsible for designing a development board for the **BSBD** of the car which is responsible for the safety mechanisms. Began by designing a block diagram then moved on to the **schematic capture** of the PCB.

Rocket Club, Engineer, Golden, CO

Aug 2025 - Present

- In the process of designing and engineering **L-1 and L-2** propelled rockets that reach speeds of well over **Mach 1.0** and apogees of above **1100 meters**. Utilized Software such as **SolidWorks** and **OpenRocket** for the design and tools such as the **EpilogLaser** cutter for the fins and the **Bambu XL Carbon** 3D printer for the nose of the rocket.

Cyberpatriot Open Division, Linux Competitor, Allen, TX

Sep 2024 – Dec 2024

- Qualified for open division against **3080 teams**. Placed in platinum; **top 20%** of all open teams in Texas and **top 30%** nationwide.

## CERTIFICATIONS

- C/C++ CERTIFICATION** - The University of Santa Cruz: Familiarized myself with the syntax of C/C++ and succeeded in finishing the final project of the course.
- CS50X CS** - Harvard University: Grasped the philosophy behind CS and what a programmer's responsibility is. Developed further C++ skills when it came to problem solving and understanding pointers.
- CS50X PYTHON** - Harvard University: Comprehended python syntax and general use for everyday tasks. Familiarized myself with some important libraries such as NumPy and Flask.

## SKILLS

- Computer Skills:** C, C++, C#, Python, Altium, Fusion360, SolidWorks, MATLAB, Java, CSS  
HTML, SQL, Git, Linux, Microsoft Office Products
- Language Skills:** English – Fluent, Arabic – Fluent, German – Intermediate