

# Aman Adhikari

Engineer | (626)-616-1244 | [amanadhikarisso@gmail.com](mailto:amanadhikarisso@gmail.com) | [GitHub](#) | [Linkedin](#) | [Web-Portfolio](#)

## EDUCATION

**Computer Engineering - B.A of Science** | California State Polytechnic University, Pomona | Expected Graduation- 2025

● GPA | 3.33 / 4.00

● Coursework | Electrical Circuit Analysis 1/2, ElectroMagnetism and Circuits, Intro to Micro Electronics, C for Engineers, Data Structures and Algorithms

**Computer Science and Electrical Engineering - C.S.E.E Diploma** | Don Bosco Technical Institute | Graduation- MAY 2020

● GPA | 3.67 / 4.00

● Coursework | A.P Computer Science, Amplifiers, FTC Robotics.

## EXPERIENCE

**CAL POLY POMONA | APT INVENTIONS;BattleBots | Software/Electronics Team Member** | Jan2023 - Current

- Team member and contestant in the Live television competition "BattleBots". Bot name "DOOM".
- Familiarity with programming moving parts like motors and actuators. Simple systems control using Bluetooth.
- Use of machinery to cut and shape robot parts chassis and other moving parts.
- Design and implementation of carbon fiber 3D printed parts and tools.

*Technologies: Arduino, C, Solidworks, 3D printing.*

**CAL POLY POMONA | Software Development Intern** | Dec 2020 – Mar 2021

- 3 months of teamwork experience with the Mechanical Engineering department and team members from Cal Poly Pomona to Collectively rebuild the open source C.A.D program 'FreeCAD' from C++ to C#.
- Familiar with C# and Python libraries for fully functioning scripts and applications. Console logging and scripting were essential features in the port.
- Familiar with larger-sized projects using VisualStudio. Explored both front-end and back-end aspects of C.A.D software.

*Technologies: C++, C#, CMake, Python, Git*

**HIMALAYAN GROUP INC. | Web Development** | June 2016 – June 2022

- Assisted the company with more difficult aspects of Web Design like HTML, CSS, Server/Data management, etc.
- Introduced MailChimp to the company sales model. Over 100 successful campaigns were designed.

*Technologies: HTML, CSS, React.js, Node.js, Excel*

**BOSCO TECH HIGH SCHOOL | Robotics Student Mentor** | Aug 2018- May 2020

- FTC Robotics team member. Learned and taught programming to create robots that can solve tasks.
- Familiarity with the Android SDK platform. Developed and Debugged a robot communication app.
- Hands-on engineering learning experience. Measured and implemented designs for chains, tracks, and claws.
- Seniors partner up with brother schools and form teams to collectively put together robots that can solve specific tasks.

*Technologies: JavaScript, Android SDK, Atom*

## SKILLS

● **Programming** | Java • Python • C • C# • C++ • JavaScript (React, Vue, P5)

● Web Design, Front End, Machine Learning, Data Sciences.

● **Electronics** | Batteries • PCB Design • Embedded C

## Current Projects

**Star Tracker | Python / C / Arduino**

- A laser star tracker used to find constellations and deep space objects for night sky photography.
- Capable of live GPS coordination and satellite telemetry.

**Automated Irrigation | Python/Raspberry Pi**

- A fully automated irrigation system using live weather data with crop/environmental sensors.