

# Alex Dickhans

Computer Science/Electrical Engineering focused high school student

## EDUCATION

### Longmont High School, Longmont, Colorado

August 2021 - Present

Weighted GPA: 4.564

Relevant coursework: AP Computer Science A, Intro to Artificial Intelligence, Intro to Data Science, Design foundations

Expected graduation: 2025

Class Rank: 2nd

Membership: VEX Robotics, Cross Country, NHS

## EXTRA CURRICULARS

### VEX Robotics — *World Class Programming*

Participated in VEX Robotics for 10 years

Ranked 7th at the VEX 2024 World Championships on 2654P

Won all levels of competition

Scored World Record Programming Skills multiple times

### First Robotics Competition — *Software Team Member*

Active member of 1619 Up-A-Creek Robotics

Contributed to robot code used on the world champion robot

## EXPERIENCE

### Robotics Research — *Research Assistant*

March 2024 - Present

Conducted research on Human Robot Interaction in the HIRO Group

Developed hardware and software integrations for published work

### SVVSD Innovation Center — *Student designer*

July 2022 - Present

Part time employee of SVVSD Innovation Center

Design user friendly systems to monitor health of local waterways

Help with local environment conservation efforts

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## SKILLS

**Fluent:** Git, C++, Rust, Schematic Design, Arduino, Motion Control, 3D design, Python

**Proficient:** C, ROS 1/2, Java, Project Management, Web Development

## AWARDS

**Excellence Award VEX World Champions** awarded based on programming, performance and notebooking excellence

**World Record Programming** highest programming skills in the world out of thousands of teams

**First Robotics Competition 2022 World Champions** as an active member of 1619 Up-A-Creek Robotics

**Overall fastest, and most reliable AI Model** at district wide AI Racing competition

**3rd Place at Colorado CFW** a statewide conservation grant proposal competition