Alex Dickhans

Computer Science/Electrical Engineering focused high school student

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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

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