

# Alexander (Sasha) Dehlendorf

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## ABOUT

Driven highschool student with a passion for robotics, electronics, and programming. Looking for a summer job or internship to gain hands-on experience in the world of tech. Eager to learn and contribute alongside others.

## EXPERIENCE

### First Robotics Competition, Team 6964 — Programming

September 2024 - Current

- Collaborating with a team of engineers to design and implement robot code using WPILib and Java
- Leveraging PhotonVision for real-time computer vision, using AprilTags for targeting an robot autonomy

### SageSE, Columbus OH — Hardware Processing Assistant

May 2023 - September 2023

- Assembled power supply units (PSUs) for computer systems
- Packaged and prepared hardware for shipment, maintaining quality
- Recycled and refurbished electronic components, optimizing material reuse

## EDUCATION

### Upper Arlington High School, Columbus

Graduation May 2026

- AP/IB Computer Science — 3 Years
- AP Physics — 1 Year
- Robotics — 2 Years

## PROJECTS

### Robotic Glove — Real-Time *Finger Flexion Visualization*

Designed and built a wearable glove with flexible 3D-printed joints and embedded sensors to track finger movement. Captures finger flexion and renders data in real time as a 3D hand via a custom web-program.

## SKILLS

- Web Development
- Embedded Systems Programming (Arduino, ESP32)
- Network Programming
- Linux Development
- CAD (Mechanical + PCB)
- Photoshop, Illustrator, Premier Pro, After Effects, Blender

## Accomplishments

- Engineered and deployed a C++ web server to host the Robotic Glove's 3D hand visualizer
- Building a website for my First Robotics Competition team using Typescript and Three.js to improve outreach
- Premier Pro Professional [Certificate](#)

## LANGUAGES

- C/C++
- Java
- Rust
- Python
- Javascript/Typescript
- HTML/CSS