

Cameron Tucker

tucker.676@osu.edu ❖ camerontucker.com

Seeking a software engineering internship to apply my skills in AI, robotics, computer vision, and programming.

EDUCATION

Ohio State University

BS, Computer Science Engineering, AI Specialization

Expected Graduation: May 2026

Columbus, OH

- **3.9 GPA**
- **Underwater Robotics Team - Software Team Lead**
 - Lead a team developing and integrating advanced underwater robotic systems, achieving 2nd place in Overall Autonomy, 2nd Overall in Design Documentation, and 1st place in Systems Assessment at the RoboSub competition.
 - Oversee software development and integration, ensuring cohesive functionality across all subsystems.
 - Manage the GitHub codebase, ensuring proper version control, code quality, and collaboration.
 - Developed YOLOv8-based perception components with ROS2 for object detection and pose estimation.
 - Created onboarding materials, and conducted training to streamline member integration.
 - Handled data sharing, received a special award for data sharing efforts, and assisted RoboNation in deploying a CVAT server for the competition.

PROJECTS

- **Dataset Augmentation Tool:** GUI for image dataset augmentation with real-time preview and directory management, supporting mirroring, cropping, zooming, rotating, and overlaying.
- **Tello Drone Indoor Mapping and Navigation:** ROS2 integration of a Tello drone using monocular SLAM and YOLOv8 for indoor mapping and autonomous navigation.
- **Stereo Vision Disparity Adjustment Tool:** GUI for adjusting and visualizing stereo vision disparity maps to enhance depth perception.
- **Data Collection Web Application:** React-based web app for efficient video frame labeling and machine learning dataset annotation.

SKILLS & INTERESTS

- **Programming Languages:** Python; C++; Java; JavaScript; HTML; CSS; SQL
- **Skills:** Robotics; Computer Vision; ROS2; Git; OpenCV; Qt; React; PyTorch; Networking; Project Management
- **Interests:** Piano Improvisation; Music Production; Fitness; Cooking; Gardening

WORK EXPERIENCE

AUX Technology

Founder & IT Specialist

March 2022 – Present

Columbus, OH

- Founded and manage an IT company focused on providing small business solutions, including network support and hardware maintenance.
- Developed a custom database that saved a client hundreds of hours per month by automating key processes.
- Conduct regular IT assessments, resolve technical issues, and optimize IT infrastructure.
- Created responsive websites for clients, improving their online presence and user engagement.

Hero IT

IT Consultant

March 2019 – February 2022

Columbus, OH

- Supported network systems and managed hardware to ensure optimal performance and reliability.
- Implemented network security measures and provided end-user training to enhance IT infrastructure.