

Walker Todd

Waynesboro, Virginia

540-430-7532 • walkertodd03@gmail.com • linkedin.com/in/walkerhtodd/ • github.com/WalkerHTodd

EDUCATION

James Madison University (JMU), Harrisonburg, VA
Bachelors of Science in Computer Science

Expected Graduation: May 2025
Minor in Robotics

SKILLS

- Python, Java, HTML/CSS, Docker, SQL, C, C#, C++, ROS2, JavaScript, TypeScript, GitHub, GitLab, Rust, Haskell, Ruby, Linux

PROJECTS

Autonomous Golf Cart Project - JMU

January 2024 - August 2024

- Converted the ROS1 framework to a ROS2 framework for a fully autonomous golf cart, "JACart 2". The project utilized the Robot Operating System 2 (ROS2) framework for real-time processing and control and lidar sensors for environment perception.

Simply Sports - Sports Website - JMU

August 2024 - Present

- Currently developing a web application that pulls live sports scores and upcoming game times from external APIs, presenting the data in a simple and intuitive interface, with plans to integrate additional features like team filtering and notifications.

EXPERIENCE

James Madison University, Harrisonburg, Virginia

Undergraduate Researcher – Autonomous Golf Cart Project

May 2024 – August 2024

- Collaborated with a multidisciplinary team to develop and test an autonomous golf cart (JACart 2), focusing on sensor integration and ROS2-based navigation
- Implemented a UI front and backend system, and also consolidated the project in Docker
- Conducted extensive testing and data analysis to refine the cart's autonomous functions, resulting in a successful demonstration

Walmart, Waynesboro, Virginia

Stocking Associate

May 2021 – Present

- Collaborated with a team of 5+ to efficiently stock and organize merchandise
- Assisted customers with locating products, enhancing customer satisfaction
- Managed inventory counts and restocked shelves, ensuring accurate stock levels and minimizing overstock

CAMPUS INVOLVEMENT

Robotics Major/Minor Ambassador

August 2024 - Present

- Represent the department at events, providing information on program requirements to prospective students and attendees.

Competitive Programming Club, James Madison University

December 2022 - Present

- Engage in weekly problem-solving sessions, tackling algorithmic challenges across key programming domains.