

Astrid Wimmer

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EDUCATION

University of Central Florida

Expected Dec. 2025

Bachelor of Science in Computer Science, Minors in Physics and Math

Orlando, FL

- GPA: 4.0/4.0
- Relevant Courses: Object-Oriented Programming, Computer Science 1 and 2 (Data Structures and Algorithms), Systems Software, Quantum Information Processing, Robot Vision, Artificial Intelligence
- Achievements: President's Honor Roll (*August 2022 – Present*)

EXPERIENCE

Undergraduate Researcher - AgAID Institute

Feb. 2024 – Present

University of Central Florida | Orlando, FL

- Develop robotic technologies to autonomously perform agricultural tasks, such as pruning and harvesting fruit, using computer vision and AI/ML
- Train machine learning models using Python (PyTorch) with YOLO series models
- Collect and annotate hundreds of images from the field for model development using RoboFlow
- Integrate machine learning predictions into robotic movement by using ROS and MATLAB for C++
- Test robots in the field and analyze the effectiveness of current solutions in written reports

Instructor

June 2021 – Aug. 2022

Kumon Math and Reading Center | Weston, FL

- Instructed students from ages 4-17 in necessary mathematics and reading skills, ranging in difficulty from beginner to college-level
- Encouraged problem-solving skills and independence in students through curated lesson plans
- Maintained frequent communication with parents to provide feedback on students' progress

SKILLS

Programming Languages: Java, C++, Python, C, C#, JavaScript, HTML, CSS, MATLAB

Technologies: TypeScript, Git, React, Next.js, Express, MongoDB, ROS, PyTorch

Spoken Languages: English, German, Spanish

PROJECTS

Bomberman | Unity, C#

- Developed a modern recreation of Bomberman (for the Nintendo NES) using Unity with C#
- Implemented 3 levels with randomly-generated maps that included various power ups and enemies
- Designed and programmed the UI and the saving system