

# Anna Vadella

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## SKILLS

### Languages and Softwares

- C++
- Java
- Python
- SQL
- ROS

### Professional

- Project Management
- Team Collaboration
- Public Speaking
- Event Planning
- Detail Oriented
- Problem Solving
- Critical Thinking

## PUBLICATIONS

### Preprints

- M. Evans, M. Machado, R. Johnson, L. Escamilla, **A. Vadella**, B. Froemming-Aldanondo, T. Rastoskueva, M. Jostes, D. Butani, R. Kaddis, C. Chung, and J. Siegel. 2024. Vehicle-to-Everything (V2X) Communication: A Roadside Unit for Adaptive Intersection Control of Autonomous Electric Vehicles [Under review]
- B. Froemming-Aldanondo, T. Rastoskueva, M. Evans, M. Machado, **A. Vadella**, L. Escamilla, R. Johnson, M. Jostes, D. Butani, R. Kaddis, C. Chung, and J. Siegel. 2024. Developing, Analyzing, and Evaluating Self-Drive Algorithms Using Drive-by-Wire Autonomous Vehicles [Under review]

## EDUCATION

**Butler University** | Indianapolis, IN, United States  
**August 2021 - May 2025**

- Bachelor of Science in Computer Science
- Minor in Anthropology
- GPA: 3.77

## EXPERIENCE

### INFORMATION TECHNOLOGY INTERN | Butler University

**August 2024 - Present**

- Analyzed and presented SQL Query data in an efficient manner
- Gained experience programming with Raspberry Pis and Arduino

### NSF RESEARCH INTERN | Lawrence Technological University, Southfield, MI

**May 2024 - July 2024**

- Worked with seven other undergraduate students to research developing, testing, and analyzing self-driving and V2X algorithms for automated vehicles.
- Developed an adaptive speed algorithm and robust lane-following algorithms for autonomous driving using ROS and OpenCV
  - Tested algorithms in a simulated intersection environment and utilized ROSBoard for visualization of ROS topics and traffic light states

### CSSE DEPARTMENTAL TUTOR | Butler University

**August 2023 - Present**

- Provide tutoring to students in algorithm design and analysis, as well as assistance in C++ and Java programming languages
- Offer support with homework and test preparation to enhance student performance

### INFORMATION COMMONS ASSISTANT | Butler University

**August 2022 - January 2023, August 2023 - Present**

- Provide customer service to library patrons
- Assist with daily library operations, including managing checkouts, shelving books, and providing technical support

### SECRETARY → VICE PRESIDENT FOR ACM CLUB | Butler University

**February 2023 - Present**

- Plan and organize club meetings, and coordinate activities to enhance member engagement and computer literacy on campus
- Increased student membership by 50%

## ACHIEVEMENTS

- Achieved Dean's List recognition as one of eight CS majors in Spring 2023 and one of twelve CS majors in Spring 2024
- Gave introduction speech for Dr. Gene Spafford for the 2024 - 2025 James J. Wood Lecture Series at Butler University
- Team Lead (Scrum Master) for two software engineering projects
- Competed in CCSC:MW 2024 programming competition
- Peer Mentor for incoming CS students for three years
- Reviewed computer science textbooks for Ellipsis Education for grades K-8
- Teacher's Assistant for CS351 - Algorithms with Dr. Ankur Gupta
- Visualized college admission algorithmic bias with Python GUI for research with Dr. Kelly Van Busum