

# Michael Evans

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## EDUCATION

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### University of Pennsylvania

Aug 2025-Present

Master of Science in Engineering in Artificial Intelligence

GPA: Incoming

### Old Dominion University

2025

Bachelor of Science in Computer Science

GPA: 3.95/4.00

### Tidewater Community College

Associate of Science in Computer Science, Business Administration

2023, 2019

GPA: 3.96/4.00

## PUBLICATIONS

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### Conference Proceedings

**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. A Roadside Unit for Infrastructure Assisted Intersection Control of Autonomous Vehicles. *IEEE International Conference on Electro/Information Technology (EIT)* 2025.

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. Evaluating Low-Resource Lane Following Algorithms for Compute-Constrained Automated Vehicles. *IEEE International Conference on Artificial Intelligence, Robotics, and Control (AIRC)* 2025.

### Workshops

**Michael Evans**, Dominik Soós, Ethan Landers, and Jian Wu. MSVEC: A Multidomain Testing Dataset for Scientific Claim Verification. In *International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc)* 2023.

## TALKS

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### A Roadside Unit for Infrastructure Assisted Intersection Control of Autonomous Vehicles

IEEE International Conference on Electro/Information Technology, Valparaíso University, 2025.

### Robust Lane Following with V2X Traffic Management

Research Experience for Undergraduates, Lawrence Technological University, 2024.

### The Potential of Large Language Models in Evaluating Scientific Claims

Undergraduate Research Symposium, ODU Digital Commons, 2024.

### MSVEC: A Multidomain Testing Dataset for Scientific Claim Verification

The 8th National Workshop for REU Research in Networking and Systems, George Washington University, 2023.

### Scientific News Verification With GPT

Research Experience for Undergraduates, Old Dominion University, 2023.

## RESEARCH EXPERIENCE

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### Undergraduate Research Assistant

Sept 2024-Present

ODU Vision Lab, advised by Dr. Khan Iftakharuddin

- Applied model fine-tuning the VGG16 convolutional neural network (CNN) for target identification with a surveillance robot capable of identifying, tracking, and following individuals with PyTorch.
- Improved the motion planning algorithm in MATLAB for target following through tight, cluttered environments, enabling safe indoor operation previously limited to outdoor use.

**NSF REU - Developing Self-Drive Algorithms for Electric Vehicles** May-July 2024  
 Lawrence Tech and Michigan State University, advised by Dr. Chung and Dr. Siegel  
 Computer Science & Artificial Intelligence Robotics Lab

- First-authored *A Roadside Unit for Infrastructure Assisted Intersection Control of Autonomous Vehicles* as the lead researcher on a team of 7 undergraduates.
- Formulated an adaptive speed algorithm to reduce acceleration and braking by up to 75.35% for minimizing fuel consumption, and developed robust self-driving algorithms using ROS, OpenCV, and Scikit-learn.
- Assembled a V2X wireless communication architecture with a roadside unit capable of dynamically adjusting vehicle speed in response to traffic states, and deployed an Arduino-powered traffic light for visualization.

**NSF REU - Disinformation Detection and Analytics** June-Aug 2023  
 Old Dominion University, advised by Dr. Jian Wu  
 Lab for Applied Machine Learning and Natural Language Processing Systems

- Wrote *MSVEC: A Multidomain Testing Dataset for Scientific Claim Verification* as the first author.
- Conducted prompt engineering with hyperparameter tuning and expanded the project corpus from 56 to 200 data points for testing the effectiveness of the GPT-3.5-turbo model on generalizing to multiple domains.
- Calculated the precision, recall, and F1 score on zero-shot classification with the GPT-3.5-turbo model against the MSVEC dataset on two sub-tasks: stance labeling and identifying sentence rationales.

## PROFESSIONAL EXPERIENCE

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**Junior PHP Web Developer** Dec 2021-June 2022  
 Hard to Find Party Supplies

- Collaborated with the director of IT to maintain \$1m/year eCommerce platform by performing server maintenance, writing documentation, designing web pages, and updating inventory of 35,000 products.
- Revised XML web page modifications from PHP to TWIG during a complete server rework while utilizing the MVC design pattern, CSS, and HTML.
- Shaped the site Admin page by writing quality-of-life features for back-end users and setup network for secondary location during business expansion.

## SELECTED TECHNOLOGIES

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**Programming Languages**  
 Python, C++, MATLAB, PHP, JavaScript, GDScript

**Libraries & Frameworks**  
 PyTorch, OpenCV, ROS, Scikit-learn, Pandas, NumPy, Matplotlib, React, Express

## AWARDS

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NSF CISE REU Travel Grant – \$1,200	May 2025
Research Profile Highlight – Old Dominion University College of Sciences Newsletter	Nov 2024
BIO, GEO, CISE and OCE REU Travel Grant – \$1,200	Sept 2023
Academic Excellence Award – Tidewater Community College	April 2020, Mar 2023

## SERVICE & MEMBERSHIPS

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Congressional App Challenge (CAC), <i>Vision Lab Exhibitor</i>	Dec 2024
Intelligent Ground Vehicle Competition (IGVC), <i>Surveyor</i>	Jun 2024
Institute of Electrical and Electronics Engineers (IEEE), <i>Student Member</i>	Jun 2024-Present
Association for Computing Machinery Group at ODU, <i>Member</i>	Jan 2024-Present
STEM Day Expo, Wilson High School, <i>Volunteer Exhibitor</i>	Mar 2019
National Mathematics Honor Society at TCC (MAΘ), <i>Member</i>	Feb 2019-Present