Giang Anh Vu

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Education

University of Michigan — Ann Arbor, MI
Bachelor of Science, Mechanical Engineering — May 2027
Relevant Coursework: EECS 314: Electrical Circuits, Systems, and Applications

Montgomery College — Rockville, MD
Associate of Science, General Engineering — May 2025

Experience

University of Michigan Magnetometer Laboratory — Ann Arbor, MI
Research Assistant — Aug 2025 – Present
- Develop machine learning algorithms to predict geomagnetic storms.
- Analyze magnetometer data to correlate solar events with geomagnetic fluctuations.
- Research material properties for optimal sensors selection on NASA missions.
- Calibrate and maintain Helmholtz Coil apparatus for RM3100 testing.

Mathnasium — Clarksville, MD
Math Instructor — May 2024 – June 2025
- Instructed high school in Calculus I, II, and III to prepare for AP exams.
- Mentored K-12 students to develop their math reasoning and STEM interest.
- Developed personalized learning plans to improve students learning.

Leadership & Activities

Phi Theta Kappa College Honor Society — Rockville, MD
Montgomery College Vice President — Aug 2024 – June 2025
- Represented chapter at regional meetings and built relations with other students.
- Coordinated events to engage 400+ honor society members by advertising and leading educational.

Montgomery College Student Government Association — Rockville, MD
Treasurer — Dec 2023 – June 2024
- Managed a 40,000 dollar budget, overseeing financial allocations for over 40 student organizations.
- Led meetings 2x/week and approved allocated 28,000+ dollars in resources to improve student engagement.

Projects

AWS Powered Autonomous Robot Car| *Python, AWS, Creo Parametric* — Feb 2023 – June 2023
- Programmed and iteratively tuned reward functions in Python to improve track completion rates.
- Designed outer shell using Creo Parametric to withstand collisions and reduce drag.

UM Electric Boat| *Solid Works, Siemens NX* — Sep 2025 – Present
- Design and manufacture the World Record fastest Electric Boat body efficiency and safety.
- Engineer across disciplines to communicate between business and engineering.

Skills & Interests

Technical: Python, C++, Digital Logic, MATLAB, Machine Learning, CAD
Laboratory: Circuit Design, Testing, & Analysis, Machining, AD2,
Language: English (Fluent), Vietnamese (Fluent), Spanish (Conversational)