

Giang Anh Vu

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Education

University of Michigan

Bachelor of Science in Engineering, Computer Engineering | GPA: 4.0/4.0

Ann Arbor, MI

May 2027

Relevant Coursework: Programming and Data Structures; Electrical Circuits; Solid Mechanics

Awards: Martin & Ellen Chavez Scholarship Winner; Dean's List

Work Experience

U-M Vertical Flight

Ann Arbor, MI

Founder & Electrical Lead

Jan 2026 – Present

- Founded multidisciplinary eVTOL design team; compete in Vertical Flight Society design-build-fly competitions (search-and-rescue, surveillance, UAM); secure 20k+ in funding and sponsorships.
- Lead electrical systems design: power distribution, flight controllers, sensor integration (LiDAR, thermal) for autonomous VTOL quadcopters and hybrid-wing drones.

U-M Magnetometer Laboratory

Ann Arbor, MI

Research Assistant

Aug 2025 – Present

- Develop Random Forest ML models achieving 80% recall for geomagnetic storm prediction; analyze 10+ years of magnetometer data; co-author publication enabling novel early warning systems.
- Calibrate and maintain Helmholtz Coil apparatus for RM3100 sensor testing, validating hardware reliability for spaceflight environments.

Mathnasium

Clarksville, MD

Math Instructor

May 2024 – June 2025

- Instructed students in AP Calculus and Physics preparation, through personalized learning plans leading to 90% of students achieving a score of 4 or higher.
- Mentored high school students in SAT Math, resulting in an average score increase of 100+ points and improved mastery of algebraic concepts.

Projects

GoFundMI.org - Non-Profit | Python, React, Web-Development

Feb 2026 – Present

- Collaborate with Curtis Ling (MaxLinear founder & CTO) to build non-profit platform connecting student researchers to funding and enabling donors direct access to research.

Summa-Fi | Python, React, PostgreSQL

Sep 2025 – Present

- Engineer a secure, self-hosted financial platform using Python and React to automate transaction classification, reducing manual accounting workflows by 70%.
- Integrate Plaid API for real-time data; PostgreSQL for storage; React for dynamic visualization.

Leadership & Activities

Phi Theta Kappa International College Honor Society

Rockville, MD

Montgomery College Vice President

Aug 2024 – June 2025

- Orchestrated 5+ large-scale events for 400-member honor society, increasing member engagement and representing chapter at regional conferences.

Montgomery College Student Government Association

Rockville, MD

Treasurer

Dec 2023 – June 2024

- Administered \$40,000 annual budget for 40+ student organizations; exercised fiscal oversight to approve \$28,000+ in resource allocations through weekly proposal hearings.

Skills & Languages

Skills: Python (Pandas, Scikit-learn), C++, MATLAB[®], HTML/CSS, CAD (SolidWorks, Siemens NX)

Languages: English, Vietnamese (Fluent); Spanish (Conversational)