

Maxwell D'Amore

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EDUCATION

Villanova University – College of Engineering, Villanova, PA May 2029
Bachelor of Science in Electrical Engineering, minor in Engineering Entrepreneurship | **GPA: 3.86** | Dean's List
Key Courses: C Programming, Differential Equations, Linear Algebra | *Fall 2026* - Circuits, E&M, Venture 1

RESEARCH & ENGINEERING PROJECT EXPERIENCE

Undergraduate Research Scholar – F1/10 Autonomous Vehicle Systems, Villanova, PA August 2026 - May 2027

- Selected for a 10-hour-per week undergraduate research project developing autonomous driving capabilities on a 1/10-scale F1/10 vehicle while studying human and AI decision-making across short driving scenarios.
- Will develop Python tools to support autonomous vehicle testing and evaluate vision-language models using response times, written explanations, eye-tracking data, decision traces, and changes in scene cues and prompts.

Engineering Experience Program (Weekly / On-site - March), Villanova, PA / Kenya January 2026 - May 2026

- Surveyed site elevations in Kenya with an Abney level and trigonometry, then mapped four latrine plots in ArcGIS and drafted site schematics in Civil 3D: designs slated for construction of new latrine blocks at Siaya Township Primary in March 2027.
- Assessed a school's borehole, pump, and water tower to model pressure requirements, comparing a gravity-fed tower vs. a higher-capacity pump for site-wide water delivery.
- While not on-site, met weekly with the VESL Kenya team to review project progress, discuss engineering challenges, and plan water, sanitation, and electrical system improvements with partners.

SUMOBOT Robotics Design Project, Villanova, PA January 2026 - May 2026

- Designed and built a competition SumoBot with a team over 3 months, modeling the wheels and outer shell in SOLIDWORKS and integrating an Arduino, breadboard, battery system, motor driver, motors and sensors.
- Built and routed the robot's wiring, developed C code and soldered motor leads to the motor driver while positioning sensors along the top and sides of the shell.

WORK EXPERIENCE

Co-Founder, Growth & GTM – Stealth Startup: STARTR March 2026 - Present

- Co-founded an early-stage consumer app and led initial growth through different social media platforms, generating more than 1 million views.
- Conduct weekly user interviews and test beta versions to identify recurring pain points, document bugs, evaluate response quality, and help the team improve product features before release.

Mercedes-Benz USA, Lynnfield, MA May 2025 - August 2025

Valet and Customer Assistant

Budget Pools, Peabody, MA May 2024 - August 2024

Seasonal Sales Associate

SKILLS

Languages: C; **Software:** SOLIDWORKS, MATLAB; **Hardware:** Autonomous systems, LiDAR, Soldering; **Other:** Microsoft Office; Startup Development; Engineering drawings; Product Marketing; **Learning:** Python - Research

LEADERSHIP & ACTIVITIES

Formula SAE: NovaRacing – Recruitment Project, Villanova University September 2026 – Present

- Designing an FSAE-compliant steering wheel in CAD for ergonomics and quick-disconnect integration

Director of Publicity: Engineering Student Council, Villanova University September 2026 – Present

- Oversee emails, social media, and posters for all events and Engineering engagement activities.

F1/10th Car club, Villanova University August 2026 – Present

- Work with two computer engineers to develop a 1/10-scale F1/10 vehicle toward fully autonomous operation.

Special Olympics Committee, Villanova University February 2026 - Present

- Selected as 1 of 9 first year students to work with SPO PA to plan for Fall Fest and work with athletes.

Institute of Electrical and Electronics Engineers (IEEE), Villanova Chapter September 2025 - Present

Pianist: Performed at Carnegie Hall three times; **Varsity Basketball Athlete** 2014 – Present; 2021 - 2025