

# Ari Stehney

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## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA  
*Bachelor of Science in Computer Engineering*

May 2029  
GPA: NA/4.00

**Ideaventions Academy for Math and Science**, Reston, VA  
*CogWorks Machine Learning, Post-AP Computer Vision Research Lab,  
AP Calculus BC, AP Computer Science A, AP Physics C, Post-AP Linear Algebra and Proofs*

June 2025  
GPA: 4.45/4.00  
SAT: 1580/1600

## HONORS

Natl. Merit Finalist, 2025; AP Scholar with Distinction, 2025; William and Mary Leadership Award, 2024; School Leadership and Excellence, 2023; RIT Business and Leadership Award, 2024; Xerox Award for Innovation and Technology, 2024; School Literary Award, 2025; Noblitt Scholar, 2025

## WORK EXPERIENCE

**WREKD Co.**, Remote— *Product Development Engineer*

Nov 2023 – Present

- Spearheaded design and development of electrical and mechanical systems for unmanned aerial vehicles and competitive drone racing platforms
- Continuously integrated a balance of consumer feedback and multi-objective engineering optimization
- Directed interactions with international manufacturers during all stages of a product launch and while navigating a changing supply chain

**DroneBlocks**, Dallas, TX – *Engineering Intern*

Feb 2024 – Sep 2024

- Collaborated with other interns to prototype and test a GPS-denied drone product for educational applications
- Authored a comprehensive electronics package proposal and oversaw the project through to a viable product.
- Utilized Computer Aided Design (CAD) to draft and iterate on six major air-frame versions.
- Collaborated with international manufacturers to produce carbon fiber composite parts and source hardware.

**COMPAS Research Lab, Stony Brook University**, Long Island, NY – *Research Intern*

Jun 2024 – Aug 2024

- Developed an embedded dynamic programming environment for remote sensing devices using ESP32/ESP8266 MCUs.
- Discussed programming language semantics with professors in the COMPAS Lab and wrote interpreter in C/C++ to abstract low-level micro-controller functionality
- Presented poster at Simons Research Symposium

**Lightcraft.TV**, Los Angeles, CA — *Engineering Intern*

Jun 2022 – Aug 2023

- Created devices for cinematography using Computer Aided Design (CAD) and Printed Circuit Board (PCB) design.
- Wrote a real-time lens Field of View (FOV) simulation tool in C running on STMicroelectronics Micro-controllers
- Tested, tuned and packed equipment to prepare for filming jobs with Porsche, Trilogy Wave, and more.

## LEADERSHIP AND COMMUNITY ENGAGEMENT

**Bell Advanced Vertical Robotics: Team Daedalus**, Reston, VA – *Founder and Team Co-lead*

July 2022 – June 2025

- Co-led meetings and mentored team members learning diverse skills in robotics and flight dynamics through a challenge that uses drones and robots to fight fires. Main vehicle was a quadcopter built from scratch.
- Oversaw team design strategy worked through the prototyping process from Computer Aided Design (CAD) drawings in Fusion 360 to fabrication with 3D printers and Laser cutters
- Piloted the main drone and assisted with team coordination and collaboration during competitions
- **Award:** 1st – 2023 and 2024 Bell AVR National/World Championship

**Lazarus Computer Ministry**, Vienna, VA – *Volunteer and Technical Director*

July 2018 – Present

- Refurbished and distributed 200+ donated computers to nonprofits and missionaries internationally
- Built automated network imaging system reducing computer refurbishing time by 75% and allowing parallelization
- Created process documentation and taught volunteers how to employ new techniques

## SKILLS AND INTERESTS

**Technologies:** Fusion 360, KiCad, Ubuntu/Linux, C/C++, Python, MATLAB, Git, Jupyter, Torch/TF/Numpy, Rust, Office 365

**Tools:** 3D printer, Laser cutter, CNC, Waterjet, PCB fabs, Drill Press, Shop tools like drills, bandsaws, lathes, etc.

**Spoken Languages:** Spanish Partial-fluency (NSE Gold, global top 2%)