

Zerun Wang

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Electrical Engineering major with experience in robotics, AI/ML, and hardware design. Strong leadership and communication abilities. Skilled in CAD, PCB design, and programming, with research in machine learning and real-time computer vision. Seeking internship for Summer 2026.

EDUCATION

Georgia Institute of Technology (GT), Atlanta, GA *Expected Graduation: Dec 2028*
Bachelor of Science in Electrical Engineering

- *Relevant Coursework:* Intro to Computing, Multivariable Calculus, Digital System Design*, Intro to Signal Processing*, Differential Equations*, Circuit Analysis*
*expected Spring 2026

The Experimental High School Attached to Beijing Normal University (EHSBNU), Beijing September 2022 – July 2025

SKILLS

Programming: Python, C++, Rust, PyTorch

Software: KiCad, Altium Designer, Shapr3D, Arduino IDE, Raspberry Pi

Languages: English (Intermediate), Chinese (Native)

EXPERIENCE

Center for Astrophysics, Harvard & Smithsonian, Remote April 2024 – October 2024
Research Intern

- Optimized a BPNN network for cryocooler flexure spring failure prediction with Bayesian Optimization, 94% accuracy.
- Cleaned lab-test data, augmented using GAN for dataset creation.

National Engineering Research Center for IT in Agriculture, Beijing, China May 2023 – March 2024
Research Intern

- Integrated depth data and CBAM into YOLOv5 for real-time apple detection in nighttime; improved F1-score to 93.1%
- Constructed a curated and annotated tomato dataset for semantic segmentation

PROJECTS

Yellow Jacket Space Program | Avionics Engineer September 2025 – Present
• Migrating ZED-F9P RTK GPS module interface from SPI to I²C for improved bus efficiency and sensor integration in a LOX/Kerosene rocket targeting 120,000 ft altitude.

Quadruped Robot | Designer April 2025 – Present
• Designed a PCB with KiCad incorporating ESP32, LDOs, and multiple sensors.
• Currently studying Deep Reinforcement Learning and MuJoCo for simulation and intelligent control of robotic systems.

HyTech Racing (FSAE Electric) | Electrical Engineer September 2025 – Present
• Implementing replacement power sensing firmware in the ACU for an FSAE electric vehicle to improve voltage/current sampling resolution beyond the 10 Hz Energy Meter limit.

Vocabular Mini Program | Lead Developer November 2022 – October 2023
• Quantified lexical complexity for 20k common English words with multiple linear regression. Documented 30p technical report.
• Developed a mini program to auto-select vocabularies for memorization based on one's English level, used by 1k+ peers.

LEADERSHIP

Incubator Student Academic Platform | Department Manager, Developer June 2023 – October 2024
• Initiated and managed Incubator online department. Supervised 4 students. Organized tutorials for future use.
• Built a website, hosted 30+ replays of student lectures and 5 journal issues, used by 300+ fellow students.

International Space Settlement Design Competition | Team Captain June 2023 – September 2024
• Led 15 people to craft structural designs, urban planning, and business. Rendered models with Blender and Fusion360.
• Formulated three 50-page proposals for future space settlements and L4, the Moon, and L5, won runners-up.
• Tutored 2 new teams to compete in the following season.

SDSZ Robotics Club (EHSBNU) | President, Team Captain, Coach October 2022 – June 2024
• Headed a team of 6 people to design robots, trained 10+ hrs./wk., optimized PID for automation, competed in 17 games.
• Coached 2 school VEX Robotics teams, taught robotics & C++ weekly for 20+ members, compiled robotics textbook.
• Organized 2 inter-school competitions with 10+ teams.