

Jason Chen

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Education

Georgia Institute of Technology | Aug 2026 – Present
B.S. in Mechanical Engineering

Beijing National Day School | Sep 2023 – Jun 2026
High School Diploma - Unweighted GPA 4.23/4.3

Experience

Independent Project | “Chopsticks” Biped Robot
Dec 2025 – Present

- Designed a 6-DoF bipedal robot with custom 6:1 quasi-direct-drive BLDC actuators and FOC for high-bandwidth torque control.
- Developing dual-leg balancing and planar walking control, with ongoing work toward 3D balance and dynamic locomotion.

Founder & Organizer | PivotHack Hackathon
Feb 2025 – May 2025

- Founded and led a nationwide 48-hour hackathon for high school students under the theme “AI for Good”
- Directed operations for 28 participants across China and coordinated 10+ student volunteers in event design, logistics, and execution.

Independent Project | Chainring-Integrated E-Bike System
Jan 2025 – Jun 2025

- Designed a detachable pedal-assist e-bike system for elderly riders, integrating a BLDC motor and field-oriented control (FOC).
- Conducted research and prototyping as part of BNDS’s Interdisciplinary Research Seminar. Patent pending.

First Author | Magnetic Levitation Research (Yau Award Second Prize)
Dec 2023 – Nov 2024

- Investigated a nontrivial magnetic levitation phenomenon derived from the IYPT competition problem set.
- Led a research team of three, producing award-winning results recognized in the S.-T. Yau High School Physics Competition.

Technical Skills

Practical Experience

- Fusion 360, SolidWorks, PTC Creo
- FDM 3D printing, CNC lathe programming, laser cutting, soldering
- STM32, ESP32, BLDC field-oriented control, sensor integration
- Python, Java, C++ for embedded programming
- Adobe Illustrator, Photoshop, Premiere Pro, web design

Familiarity With

- MATLAB, COMSOL Multiphysics, Mathematica, PCB design and layout