

# Eugene J. Li

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## Objective

A versatile electrical engineering student with extensive hands-on experience developing both hardware and software systems. Skilled in CAD, embedded systems, and programming (Java, C++), with a strong theoretical foundation in circuits and algorithms. Seeking an internship for Summer 2026 to contribute to cutting-edge research in chip design, robotics, and AI.

## Education

### **Georgia Institute of Technology | Atlanta, GA**

Bachelor of Science in Electrical Engineering

August 2025 – Present

Expected Graduation: May 2029

### **Newport High School | Bellevue, WA**

High School Diploma, GPA 4.0/4.0, ACT 36

September 2021 – June 2025

## Skills

**Programming:** Java, C++, Python, Swift, Android Studios, XCode, Git

**Hardware:** PCB Design (EasyEDA, KiCad), Arduinos, ESP32s, soldering

**Software:** CAD (SolidWorks, OnShape), Autodesk CFD Simulation

## Experience

### **Bellevue Club | Bellevue, WA**

May 2023 – June 2025

#### **Red-Cross Certified Lifeguard**

- Monitored aquatic facilities to ensure the safety of 100+ daily members, performing first-aid and water rescues
- Worked with management and staff to host weekly recreational activities that strengthened member engagement

### **Northwest Chinese School, Wise Camps; Camp Liftoff | Bellevue, WA**

June 2023 – August 2025

#### **Summer Camp Teacher/Founder**

- Developed English, art, and science curriculum to teach 250+ students ages 5-12 at Northwest Chinese School + Wise Camps
- Co-founded Camp Liftoff; taught 40+ students; achieved 60% enrollment growth between first year and second year

## Projects

### **Carbon Fiber Manufacturing**

December 2023 – March 2025

#### **Self-Directed**

- Engineered and optimized a custom process for manufacturing carbon fiber rocket tubes across 10+ iterations
- Drastically increased structural integrity, reduced replacement costs by 50% compared to traditional paper airframes

### **Flight Computer PCB + iOS App**

June 2024 – December 2024

#### **Self-Directed**

- Designed a custom flight computer with comparable performance to commercial flight computers while reducing costs by 30%
- Built and published an iOS app to control the flight computer via Bluetooth, allowing for software-in-the-loop testing

### **Rocket Airbrake**

September 2023 – March 2024

#### **Self-Directed**

- Developed a 3D-printed mechanism that used PID to control flap deployment and adjust airspeed
- After six iterations, the mechanism was able to achieve landings within 1 foot of a pre-determined altitude

## Leadership

### **FTC Robotics Team 18225 | Bellevue, WA**

September 2020 – April 2025

#### **Mechanical Lead**

- Mentored new members in CAD, led 3-person team in development + fabrication of turret and intake systems
- FTC Robotics Worlds Semi-finalist/Finalist 2022, 2023, 2024, 2025

### **Rocketry Club | Bellevue, WA**

September 2021 – March 2025

#### **Team Captain**

- Led team of 8 to implement advanced designs such as mechanical airbrakes and spring-loaded parachute ejection systems
- 2024 American Rocketry Competition National Finalist