Justin I. Hwang

Sunnyvale, CA 94087 | (650) 996-9097| justin@goliath.org | U.S. Citizen

Objective

Detail-oriented Computer Engineering major with a passion for object oriented programming, software testing/verification, and embedded systems. Articulate, precise, and thorough in communication and documentation. Looking for a system verification or Test Engineering **Internship/Co-Op starting Spring or Summer 2025**.

Education

Georgia Institute of Technology | Atlanta, GA   *August 2023– Present*
Bachelor of Science in Computer Engineering, GPA 4.00   Expected Graduation, May 2027
Minor in Korean   Expected Completion, Dec 2024

Skills

Programming: Java (Gradle, Reflections, JavaFX, Javadocs), LaTeX, Python, Flutter, C++
Platforms: Linux, MacOS, Windows 10
Hardware: Raspberry Pi, Arduino
Software: VSCode, IntelliJ, Eclipse, Emacs, GitHub, Autodesk EAGLE, Fusion 360, Git, GitHub, GitLab, Arduino IDE
Professional Organizations: HyTech Racing (FSAE Electric), Georgia Tech Chamber Choir
Communication: Product descriptions, LaTeX, class forums, code documentation, sponsorship presentations
Languages: English (native), Korean (learning)

Experience

Teaching Assistant | Atlanta, GA   *December 2023 - Present*
Object Oriented Programming
- Leading weekly recitations, holding office hours 2x/week, grading homework assignments and exams.
- Recruited by professor (out of 1000+ students) for writing extensive JUnit-style tester files on the class forum.

Covrick LLC | San Jose, CA   *May 2021 – July 2023*
Senior Inventory Analyst
E-commerce seller on Amazon and EBay.
- Drafted, edited, and published new product listings with keyword-optimized descriptions from market research.
- Trained 5 new employees. Drafted the batch-creation training section of the employee handbook.
- Created 250 shipments (FBA & MFN) with InventoryLab and SellerCentral.

Projects

HyTech Racing | FSAE Electric Team   *Fall 2023 - Present*
Collegiate Formula-style racing team
- Wrote Arduino (C++) and Python code for a custom board to concurrently log temperature data from 96 thermistors.
- Used Autodesk EAGLE, soldering iron, multimeter, and other electronics equipment to design and assemble PCBs.
- Contributing to revamped firmware codebase (C++), which includes packaging CAN frames, communicating with VectorNAV IMU through its binary serial interface, and sending telemetry data.
- Fabricated specific wire harnesses for the car using various Autosport and Molex crimps.

Minecraft Plugins / Redstone Computers   *2019 - Present*
- Programmed Java plugins for Minecraft servers using Spigot/Bukkit API, including ID verification, server security, and games.
- Built Minecraft representations of digital systems, including logic gates, combinational circuits, and 7-segment displays.

Relevant Coursework

Digital Systems and Design: Using CMOS and sequential circuits to represent boolean expressions and state machines
Data Structures and Algorithms: Coding low-level Java implementations of various data structures and search/sort algorithms.

Leadership or Activities

Robotics | FRC Team 670 | Software Lead   *2022-2023*
Soccer | Varsity Captain | All-League Player   *2022-2023*