Tedd Jung

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EDUCATION

Carnegie Mellon University *Pittsburgh, PA*
Bachelor of Science in Electrical & Computer Engineering, Concentration in Software *May 2026*

Honors: Dean's List F23
CS Courses: Computer Graphics (15-362), Computer Systems (18-213), Web Application Development (17-437), Data Structures and Algorithms (15-122), Matrices and Linear Transformations (21-241), Statistical Computing (36-350)
EE Courses: Electronic Devices and Analog Circuits (18-220), Structure and Design of Digital Systems (18-240), Signals and Systems (18-290), Physics II for Engineers (33-142)

WORK EXPERIENCE

Incoming Software Engineer Intern *San Francisco, CA*
Abridge *June 2025 – Aug. 2025*
- Developing impactful web features using TypeScript, React, and Next.js to enhance clinician workflows through AI-powered documentation tools.

Teaching Assistant: Web Application Development (17-437/637) *Pittsburgh, PA*
Carnegie Mellon School of Computer Science *Aug. 2024 – Present*
- Conducted sprint presentations for a class of 100+ students, guiding teams in developing fully functional full-stack web applications, which were tested and graded as final projects.
- Graded quizzes/assignments, and led lectures, recitations, and office hours on MVC architecture, AJAX, jQuery, JavaScript, React, Django, and REST APIs.

Electrical Integration and Test Engineer Intern *Pittsburgh, PA*
Astrobotic Technology Inc. *June 2024 – Aug. 2025*
- Improved overall efficiency of the Avionics team by 20% through designing and testing PCBs, troubleshooting test procedures and writing test scripts for the integrated avionics unit and the power cart unit over the course of two months.
- Developed, tested, and laser welded space manifold heaters over the course of two weeks that will officially be used for the Griffin Lunar Lander, set to launch in Fall 2025.
- Recognized as the only intern to achieve certification in laser welding.

Research Assistant *Pittsburgh, PA*
Carnegie Mellon University *Jan. 2024 – June 2024*
- **Robotics Institute:** Tested and integrated an RTK-GPS system to enhance GNSS accuracy for a lunar rover collecting data on potential human habitation sites on the Moon, contributing to a proof of concept for NASA.
- **MoonRanger:** Collaborated with a team of 60 engineers to develop a lunar rover for NASA's Artemis 3 mission, testing and integrating a NanoSSOC Digital Sun Sensor to enable precise sun position tracking for the communications team.

Firmware Engineer *Pittsburgh, PA*
Carnegie Mellon Racing *Feb. 2023 – Present*
- Achieved stateful firmware behavior by diagraming state machines for our firmware architecture, and testing and debugging functions in the Powertrain Thermal Controller using STM32CubeIDE.
- Accomplished the safe and efficient operation of our electric vehicle's Vehicle Safety Module and Powertrain Thermal Controller, evidenced by our 2nd place finish at Formula SAE Electric 2023.

PROJECTS

Computer Graphics Software | C++
- Architected a graphics engine with software rasterization, path tracing, and mesh editing capabilities, implementing a GPU-independent rendering pipeline with optimized vertex and fragment processing and utilizing halfedge data structures, Catmull-Clark and Loop Subdivision techniques.

Multiplayer Texas Hold'em Poker Game | HTML/CSS/JS, Django, Redis, AJAX, AWS EC2
- Created a real-time multiplayer poker game, allowing up to 256 concurrent connections at once, by using websockets and deploying it on AWS EC2 with Nginx web server.
- **Github**: https://github.com/tedd1218/chipcity.git

Fantasy Football Bot | Python, Tkinter, BeautifulSoup, pandas, sklearn, kmeans
- Utilized various Python libraries such as BeautifulSoup, Pandas, scikit-learn (including K-means clustering), and other machine learning tools to generate optimized weekly position-based player rankings for Fantasy Football in the NFL.
- **Github**: https://github.com/tedd1218/FantasyFootballBot.git

ADDITIONAL

Languages: Java, Python, C/C++, JavaScript/TypeScript, HTML/CSS, SystemVerilog/Verilog, MATLAB, SQL, R
Software/Frameworks: VSCode, STM32Cube, AWS, MongoDB, Ultimaker Cura, Django, Ajax, React, Altium
Project Management Tools: Git, GitHub, Jira, Confluence, Epsilon3, Linux, Ubuntu
Communication Protocols: SPI, UART, USB, I2C, USB, CAN, TCP, HTTP/HTTPS, System I/O