

Katie Jiang

Quincy, MA | KatieJiang@u.northwestern.edu | (617) 595-2866 | [linkedin.com/in/katiejg](https://www.linkedin.com/in/katiejg) | [katiejg.github.io](https://github.com/katiejg)

Education

Northwestern University

2023 – Anticipated 2027 (Evanston, IL)

- Bachelor of Science, Computer Engineering
- Cumulative GPA: 3.78/4.00

Relevant coursework: C/C++, Embedded Systems, Microcontroller System Design, Wireless Protocols for IoT, ARM Assembly, Data Structures and Algorithms

Skills

<i>Programming</i>	C, C++, Python, Assembly (ARM, x86), Verilog HDL, React, JavaScript, HTML, CSS
<i>Embedded Systems</i>	Microcontrollers (Arduino, Raspberry Pi, nRF), SPI, I2C, UART, GPIO, PWM, ADC/DAC
<i>Computer</i>	Git (version control), GitHub, Linux, Microsoft Office 365, Google Workspace, LaTeX
<i>Electrical</i>	Circuit Analysis, Testing Equipment, Digital Logic, Soldering, PCB Design (KiCad)

Projects

Smart Coaster (Desk Buddy)

Winter 2026, Microprocessor System Design (COMP_ENG 347-1)

- Implemented a smart coaster system in Python with a load cell sensor and HX711 amplifier connected to a larger desk assistant system on the NVIDIA Jetson AGX Orin

Micro:bit Card Game

Fall 2025, Microcontroller System Design (COMP_ENG 346)

- Implemented a fast-paced, two-player card game with the micro:bit and its nRF52833 microcontroller
- Programmed RFID reader sensors and screen display firmware in C to communicate with the microcontroller I2C manager

Experience

Northwestern University Computer Science | Microcontroller System Design Peer Mentor

Mar 2026 – Present (Evanston, IL)

- Debugging C language code with students one-on-one to clarify applied course concepts
- Mentored students through microcontroller project development for the micro:bit system

Northwestern IEEE Student Branch | Co-Technical Director

Jun 2025 – Present (Evanston, IL)

- Supervising three hardware teams to succeed in project building competition
- **Technical Program Participant** (Feb 2024 – Jun 2024)
- Prototyped an Arduino-controlled braille display with push-pull solenoids to demonstrate a viable low-cost alternative to commercial braille displays

Electrical and Computer Engineering Undergraduate Teaching Labs | Lab Aide

Oct 2023 – Present (Evanston, IL)

- Programmed a bash script to resolve a last-minute issue with a lab activity's deprecated program
- Testing and inventorying electronic components to assemble part kits for classroom instruction
- Updating and troubleshooting computers and lab equipment (multimeter, oscilloscope, logic analyzer)