

# Katie Jiang

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## Education

### Northwestern University

2023 – Anticipated 2027 (Evanston, IL)

- Bachelor of Science, Computer Engineering
- Cumulative GPA: 3.76/4.00

Relevant coursework: C/C++ Programming, Microcontroller System Design, Electronic System Design, Data Structures and Algorithms, Circuit Analysis, Signals and Systems

## Skills

Creativity, technical communication, problem solving, critical thinking, collaborative, adaptability, detail-oriented

*Programming* C/C++, Python, Verilog HDL, JavaScript, TypeScript, React, HTML/CSS, MATLAB

*Computer* Git, Linux, Microsoft 365, Google Workspace, LaTeX

*Embedded Systems* Microcontrollers (Arduino), Sensors, GPIO, ADC, PWM, UART/I2C/SPI

*Electrical* Circuit Analysis, Testing Equipment, Soldering

## Experience

### Project: Micro:bit Card Game

Fall 2025, Microcontroller System Design (COMP\_ENG 346)

- Implemented a fast-paced, two-player card game with the micro:bit embedded system and its nRF52833 microcontroller to demonstrate course knowledge
- Programmed RFID reader sensors and screen display firmware in C to communicate with the I2C manager on the microcontroller for the inputs and outputs of the system
- Managed collaborative development with Git tools and check-ins to prepare for final presentation

### Northwestern IEEE Student Branch | Co-Technical Director

Jun 2025 – Present (Evanston, IL)

- Taught Verilog and GitHub workshops to prepare ~40 students for project-building competition

#### Technical Program Participant (Feb 2024 – Jun 2024)

- Prototyped an Arduino-controlled braille display to demonstrate a viable low-cost alternative to commercial braille displays
- Won "Most Innovative" at the 2024 Technical Program Student Showcase

### VAK Embodied System Lab | Undergraduate Researcher

Sep 2024 – Present (Evanston, IL)

- Trained in basic cleanroom procedures and wedge wire bonding to develop biodegradable IC packaging
- Achieved honor of Best Computer Engineering Undergraduate Researcher Award 2025

### 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
- Developed a bash script that interfaces with Excel to streamline part kit loans
- Updating and troubleshooting computers and lab equipment (DMMs, oscilloscopes, power supplies)