

# Anna Wang

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## EDUCATION

### Carnegie Mellon University

Bachelor of Science in Electrical and Computer Engineering

Pittsburgh, PA

May 2029

**Relevant Courses:** Introduction to Electrical and Computer Engineering, Linear Algebra and Vector Calculus for Engineers, Fundamentals of Programming and Computer Science, Concepts of Mathematics, Physics 1 for Engineering Students, Effective Coding with AI

## SKILLS

Software: Python, Java, Apple Macintosh OSX, Windows, MATLAB

Languages: Mandarin (Chinese), French, English

## WORK EXPERIENCE

### MIT Lincoln Laboratory

Lexington, MA

#### High School Summer Intern

July 2024 – August 2024

- Built a 700 Hz Morse code communication system
- Designed circuits and filters with LTSpice and MATLAB and analyzed signals through an oscilloscope and spectrum analyzer
- Utilized software-defined radio to view waterfall plots with Morse code images
- Selected from a pool of over 250 applicants (~1% acceptance)

### Duke University Remote Internship

Shrewsbury, MA

#### Intern

July 2022 – June 2025

- Built a 6-layer 1D convolution neural network (CNN) to classify sleep stages to detect sleep disorders achieving ~99% accuracy based on the EEG Sleep EDFX dataset
- Quantized CNN to 2 bytes & 1 byte achieving ~60% and implemented Quantization-Aware Training
- Presented a Paper/Podium presentation at the Joint Statistical Meetings and IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies
- Published on IEEE: **A. Wang**, Q. Huang, Y. Chen, *A Quantized Parsimonious CNN Model for Sleep Polysomnogram Data Streams*

## RESEARCH EXPERIENCE

### CMU SURA

Pittsburgh, PA

#### Independent Research

May 2026 – August 2026

- TBD

## ACTIVITIES

**Club Tennis**, Carnegie Mellon University

September 2025 – Present

**Asian Student Association Freshman Rep**, Carnegie Mellon University

September 2025 – Present

**Girls Who Code Co-President**, Shrewsbury High School

September 2022 – May 2025

**Elementary Tutoring Club President**, Shrewsbury High School

September 2022 – May 2025

**Student Council Historian**, Shrewsbury High School

September 2022 – May 2025

**FRC Robotics Team 467**, Shrewsbury High School

September 2022 – May 2024