Cynthia Wu | cynthia789mobius@gmail.com | 1(516)366-9713

Education

- Stony Brook University, BE Electrical Engineering (ABET accredited), 2022
- GPA: 4.0/4.0
- Program: Women in Science and Engineering (WISE)

Relevant Projects

- Music Box Project (Summer 2019): Currently designing a music box and keyboard toy with Atmel Studio using an atmel chip, C programming, and Eagle (for pcb design).
- Robotics Mentee Project (Spring 2019): Designed the pcb board which was selected as the final pcb design for a Simon Says game for our robotics club using Eagle.
- Maze Algorithm Project (Spring 2019): Our group of two placed second in designing a maze-solving C program in our C Programming class of 117 students.
- Atmel Seven-Seg Clock (Spring 2019): Assembled a clock by following schematics and using the digital oscilloscope and digital multimeter provided by our professor.
- Creating logic gates with BJTs (personal project) (Spring 2019): Made NOT, AND, OR, NAND, NOR, and XOR logic gates with 2N2222 transistors. Documented the schematic used as well as the final product.
- Catapult Robot (Fall 2018): Did the electrical design for a robot that drives, senses obstacles, and tosses a ball. Made the car remote controllable for ease of testing.
- Robotics Internal Competition Robot (Fall 2018): Rewired and designed the mechanical structure of an rc car.
- LED Matrix (Fall 2018): Soldered a board with an 8x8 matrix of LEDs and powered and coded an Arduino to scroll numbers across the matrix.

Work Experience

- Teacher Assistant for Calculus III, Stony Brook University (January 2019 - May 2019): Graded 200 student assignments and tutored multiple students weekly.
- Electronics Shop, Stony Brook University (August 2018 - April 2019): Assist in OrCad drawings, coding, soldering, and component placement for various physics department projects.
- Hardware Assembly Intern, BREAKFAST (September 2018): Assembled parts of a light show display
- Volunteer, Housing Works (November 2017 - January 2018): Interfaced with customers and management and organized inventory.

Skills

- Electrical CAD: OrCad Capture (Learning) and Eagle
- Basic coding: C, Java, Javascript
- Mechanical CAD: Autodesk Inventor, Fusion 360, and SolidWorks (Learning)
- Microcontrollers: Arduino, AVR (programmed through Atmel Studio)

Interests

Atmel chips, Arduino, Chinese light novel translation, Crocheting, Knitting, Web Design, Digital Art, Making Resin Jewelry, 3D printing, mechanical CAD (fountain project, gears project)