

HUA BIN WU

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Education

SUNY STONY BROOK UNIVERSITY

Bachelor of Engineering: Computer Engineering (GPA: 3.85)

Societies: IEEE at SBU, Stony Brook Robotics Team (SBRT)

Honors & Awards: Dean's List (2023)

Relevant Coursework:

- Embedded Microcontroller Systems Design
- Digital Logic Design with VHDL/PLDs
- Applied Multivariable Calculus
- Data Structures & Algorithms
- Electronics
- Electrical Circuit Analysis
- Deterministic Signals & System

Stony Brook, NY

Expected May 2026

MIDWOOD HIGH SCHOOL AT BROOKLYN COLLEGE

Track: Robotics (4.00 GPA)

Clubs: Robotics Team (The Botley Crue 3371) - FIRST Inspires/TECH, Journalism Team (The Midwood Argus)

Brooklyn, NY

Jun. 2018 - Jun. 2022

Certifications & Awards:

- NOCTI Knowledge-Based Workforce Competency Credential (2022-2025)
- Career & Technical Education (CTE) Technical Endorsement (2022)
- Midwood High School Award for Superior Attainment in Advanced Placement - Physics (2022)

Experience & Activities

STONY BROOK UNIVERSITY

Stony Brook, NY

Undergraduate Teaching Assistant (AMS 161 - Applied Calculus II)

May 2023 - Jul. 2023

- Facilitated the application of analytical thinking to course learning outcomes for undergraduate students through weekly held 90 minutes office hours by explaining the step-by-step process of solving calculus fundamentals concept-related questions
- Returned individually graded and commented exams of a class of size 80 utilizing spreadsheets, to the professor in a time-efficient one-week manner

MIDWOOD HIGH SCHOOL'S ROBOTICS TEAM (2021-2022)

Brooklyn, NY

Electrical Team (The Botley Crue 3371)

Sep. 2021 - Jan. 2022

- Maintained accurate bi-weekly updates on the electrical systems of the TETRIX robot by documenting the strengths and weaknesses of newly made adjustments in preparation for our high school's yearly FIRST Tech Challenge competition
- Ensured proper cable management and the re-organization of electrical components such as motors, sensors, and wires after the end of every general body meetup session
- Collaborated with the programming team to test and reduce the robots' downtime significantly and improve its controller-operating movement coordination and flexibility on the navigating field

INFINITY EDUCATIONAL PROGRAMS

Brooklyn, NY

Repair Technician

Jul. 2021 - Aug. 2021

- Supported multiple team members in re-touching surfaces of 10+ different classrooms and 3 individual floors through stripping, filling, and priming techniques before painting to create a visually appealing and welcoming atmosphere for returning students and teachers
- Adhered to school safety administrators to collectively re-organize the inside structures of a preschool to maintain a hazard-free and efficient learning space for younger children

Projects & Research

Smart LED Intensity Adjuster with User Interface

Sept. 2023 - Dec. 2023

Utilized a 4x4 membrane keypad with an LCD module to create a real-time user interface that allows the user to accurately adjust the brightness intensity across LEDs with numerical keypress entries from 0 to 100, on an AVR128DB48 microcontroller and programmed with Assembly

Multi-Function Variable Digital Clock

Sept. 2022 - Dec. 2022

Designed a digital clock with ATMEGA4809 programmed with C++ on a PCB with settings that allow for 12/24-hour basis display in real time as well as the ability to serve as a timer/counter using four 7-segment displays, and simultaneously act as a battery charger for other devices

Skills

Technical: C/C++ (Programming Language), Python, Assembly, MATLAB, Verilog, VHDL, Autodesk Fusion360, LTSpice, OrCAD Capture CIS, Zoom, Microsoft Office Suite, Microchip Studio

Laboratory: Oscilloscope, DMM, Function Generator, PB-505 Analog & Digital Design Work Station, Electronics, Soldering, AVR CuriosityNano, PLDs