

YUN HAO DONG

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY

Expected Graduation: May 2026

Bachelor of Science, Computer Engineering | GPA: 3.947 / 4.0, Dean's List

Relevant Courses: Data Structures & Algorithms, Object Oriented Programming, Digital Logic, Intro to Circuits, Electronics I

EXPERIENCE

NYU Tandon Media Services, *Student Assistant*, Brooklyn, NY

Sept 2023 - Present

- Provided active audiovisual support and troubleshoot tech equipments for 10+ spaces in NYU Tandon daily
- Attended biweekly workshops for training on more advanced AV equipment set up for large scale events

NYU Undergraduate Summer Research Program, *Student Researcher*, Brooklyn, NY

June 2023 - Aug 2023

- Integrated game scenes, C# scripts for game objects, and Python computer vision library to send landmark data to track hand movements across the camera in Unity
- Designed a wristband PCB by researching hardware specifications of sensors and microcontrollers datasheets
- Collaborated with other student researchers to develop a frame for data collection using Ultraleap Camera

NYU Vertically Integrated Projects, Robotics Design Team, Brooklyn, NY

Systems Lead

Feb 2024 - Present

- Communicated with other subsystems to establish design implementation and technical specifications
- Designed PCBs and verified I2C communication protocol between Raspberry Pi and Teensy to command robot
- Weekly meetings with other subsystem leads to discuss progress and mitigations to potential problems

Electrical Team

Sep 2024 - Jan 2024

- Soldered and wired electric components of a robot that competes in NASA's Robotic Mining Competition: Lunabotics
- Tested and programmed Brushless DC motors, hall effect, rotary encoder, and load cell sensors for data acquisition
- Prepared and presented outreach lessons regarding Arduino and Python to local middle schools

Doris Dev, *Engineer Intern*, Brooklyn, NY

June 2022 - Aug 2022

- Collaborated with design engineers to prototype CAD models of consumer products using OnShape
- Tested consumer products for performance to understand market standards to brainstorm better designs elements

PROJECTS

HummingBird

Jan 2024 - Present

- Built iOS app with Swift to control a humidifier through bluetooth connection with an Arduino Board
- Interfaced iOS app to receive humidity data upon request and control fan speed of humidifier

Amazonia Hackathon, *Participant*, Remote

Nov 2022 - Nov 2022

- Collaborated with a team of students to create a system for monitoring changes in movement pattern of key species
- Researched appropriate sensors and transmitters to indicate early stages of deforestation and notify local authorities
- Won second place from a pool of more than 120 participants around the world

NYU Rapid Assembly and Design Project, *Head of Production*

Sept 2022 - Dec 2022

- Prototyped vibrational alarm watch and wired circuit diagram for functionality in under \$100 budget
- Scheduled and facilitated team meetings to complete designated milestones and benchmark tasks
- Delivered 4 presentations to a group of 20 students and faculty to showcase progress and final product demonstration

SKILLS

- Languages: Python, C++, C#, HTML, CSS, Swift
- Soldering, Wiring, Circuit Design, OnShape, Altium, Unity