

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

Relevant Courses: Programming and Problem Solving, Data Structures and Algorithms, Intro to Circuits

GPA: 3.922, Dean's List

EXPERIENCE

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

Sept 2023 - Present

- Provided active audiovisual support and troubleshoot tech equipments for spaces in NYU Tandon
- Managed calendar events and set up laptops and microphones for professors and guest speakers
- Maintained functionality of projectors and PCs in classrooms, auditorium, and conference rooms

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

June 2023 - Aug 2023

- Researched methods for rendering skeleton hands on Unity with computer vision under Professor S. Farokh Atashzar
- Integrated Unity game scene, C# scripts for game objects, and python data to track hand movements across the camera
- Partnered with other student researchers to develop a frame for the Ultraleap camera and collect data from the rendered hands
- Designed a wristband PCB with sensors to gather carpal tendon data to predict hand gestures based on readings

Doris Dev, *Engineer Intern*, Brooklyn, NY

June 2022 - Aug 2022

- Collaborated with design engineers to prototype CAD models of consumer products using OnShape
- Modeled and printed a force gauge adapter to establish connection between force gauge and level slider
- Led post-print process for resin printers with isopropyl alcohol wash and ultraviolet cure
- Tested consumer products to understand market standards to brainstorm better designs elements
- Conducted administrative work such as packaging items and making phone calls to schedule hazardous waste disposal

Brooklyn College, *Research Intern*, Brooklyn, NY

June 2020 - Sept 2020

- Learned laboratory techniques for testing and observing type IV pili properties under Dr. Nicolas Biais
- Analyzed research papers for weekly discussion and sharing findings and implications with a small group of students

MetroKids Daycare, Volunteer, Brooklyn, NY

June 2019 - Sept 2019

- Maintained classroom order of over 25 students and assisted students with academic assignments
- Organized arts and crafts events and facilitated the event for 3 hour duration

LEADERSHIP ACTIVITIES & SCHOOL INVOLVEMENT

NYU Vertically Integrated Projects, Robotics Design Team, *Member of Electrical Sub-team*

Sept 2022 - Present

- Soldered and wired electric components of a robot that competes in NASA's Robotic Mining Competition: Lunabotics
- Designed PCBs and verified I2C communication protocol between Raspberry Pi and Teensy to send and receive commands
- Tested and programmed Brushless DC motors, hall effect, and load cell sensors.
- Communicated and collaborated with multidisciplinary team members to troubleshoot issues in the robot
- Prepared and presented outreach lessons regarding Arduino and Python to local middle schools

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 milestones and benchmarks
- Delivered 4 presentations to a group of 20 students and faculty to showcase progress and final product

SKILLS

- Languages: Python, C++, HTML, CSS
- Soldering, Wiring, Circuit Design, CAD