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: 3.922, Dean's List
  Relevant Courses: Programming and Problem Solving, Data Structures and Algorithms, Intro to Circuits

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 and breakdown for large scale events

NYU Undergraduate Summer Research Program, *Student Researcher,* Brooklyn, NY   June 2023 - Aug 2023
  ● Researched methods for rendering skeleton hands on Unity with computer vision library using Python
  ● Integrated Unity game scene, C# scripts for game objects, and Python data to track hand movements across the camera
  ● Designed a wristband PCB by researching hardware specifications of sensors and microcontrollers datasheets to gather carpal tendon data for predicting hand gesture
  ● Collaborated with other student researchers to develop a frame for the Ultraleap camera and data collection

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 command robot
  ● Tested and programmed Brushless DC motors, hall effect, rotary encoder, and load cell sensors for data acquisition
  ● 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

Doris Dev, *Engineer Intern,* Brooklyn, NY   June 2022 - Aug 2022
  ● Collaborated with design engineers to prototype CAD models of consumer and pet products using OnShape
  ● Tested consumer products for performance to understand market standards to brainstorm better designs elements
  ● Designed a force gauge adapter by measuring dimensions and prototyped this project with laser cutter
  ● Led post-print process for resin printers with isopropyl alcohol and ultraviolet cure

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

LEADERSHIP ACTIVITIES & SCHOOL INVOLVEMENT

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
  ● Soldering, Wiring, Circuit Design, OnShape, Altium, Unity