YunHao Dong

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LinkedIn: https://www.linkedin.com/in/yunhaodong | Portfolio: https://yunhaod.github.io/portfolio | Github: https://github.com/yunhaod

EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY　　　　　　　　　　Expected Graduation: May 2026
Bachelor of Science, Computer Engineering | GPA: 3.939 | Dean's List
Relevant Courses: Data Structures & Algorithms, Object Oriented Programming, Digital Logic, Circuits, Electronics 1

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 objects, and Python computer vision to track hand movements in Unity
- Designed a wristband PCB with sensors for gathering carpal tendon data from hand gestures
- Collaborated with other student researchers to develop a frame for data collection using Ultraleap Camera

NYU Robotics Design Team, Brooklyn, NY

Systems Engineer　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jan 2024 -Present
- Developed embedded code for controlling robot in manual & autonomous operations in NASA's Lunabotics Competition
- Implemented I2C communication in Linux on NVIDIA Jetson for data exchange with Teensy microcontroller
- Communicated with other subsystems leads in weekly meetings to coordinate and strategize design implementation, constraints and intersystem integration
- Won first place in University-wide research exhibition for the Vertically Integrated Projects Category

Electrical Team Member　　　　　　　　　　　　　　　　　　　　　　　　　　　Sep 2022 - Jan 2024
- 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 to outline market standards and brainstorm better designs elements
- Performed administrative tasks including packaging items, obtaining quotes, and inventory management

PROJECTS

SnapSpecs　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jan 2024 - Present
- Prototyped a detachable camera system to instantaneously capture and transfer photo under a $300 budget
- Collaborated with other team members to interface Raspberry Pi for terminal commands and camera control
- Managed budget and coordinated meetings to implement design details and testing for functionality
- Presented and demonstrated project at a showcase to over 100 students and faculty members of NYU entrepreneurship

Track 'n Save　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Nov 2022 - Nov 2022
- Collaborated with a team of students and designed 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 100 participants around the world

NYU Rapid Assembly and Design Project　　　　　　　　　　　　　　　　　　　　Sept 2022 - Dec 2022
- Prototyped vibrational alarm watch and wired circuit diagram for functionality in under a $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
- Systems Engineering, Embedded System, Linux, Hardware Design, OnShape, Altium, Unity