Justin M. Ho

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EDUCATION

Northeastern University **Boston, MA**

Candidate for Bachelor of Computer Engineering and Computer Science in Honors Program April 2028

***Honors*:** Dean's List (Fall 2023 - Present) / Honors Impact Badge (Spring 2024) GPA: 3.89

Activities: Club Tennis / Oasis

Courses: Cornerstone of Engineering II / Fundamentals of Computer Science II / Embedded Design / Calculus II / Physics I / Differential Equations and Linear Algebra for Engineering / Discrete Structures / Computing Fundamentals

TECHNICAL SKILLS

Electronics: Arduino / AutoCAD / Autodesk Inventor / Google Suite / SOLIDWORKS / Raspberry Pi

Programming: C++ / Java / HTML / CSS / JavaScript / TypeScript / MATLAB / React / Linux

ENGINEERING AND COMPUTER SCIENCE PROJECTS

Personal Portfolio Website (Personal Project) *Spring 2024 - Present*

- Devising a website using HTML to increase technical proficiency and showcase personal projects for future work
- Implementing CSS into existing framework to enhance website appearance and user readability

Group Project Hub, Oasis (Computer Science Club Project) *Spring 2024*

- Utilized HTML and TypeScript to create the basic structure and framework of a website using the React framework to implement a navigation bar, informative home page, as well as a user log-in and log-out feature to foster a welcoming and user-friendly home page for individual users
- Designed a modern user interface capable of displaying all content utilizing CSS for styling of content
- Implemented JavaScript to increase front-end and back-end functionality for code clarity and improved user interaction resulting in a personalized user experience and content

Dorm Hydroponics, Northeastern University *Spring 2024*

- Modeled and fabricated 3D components to contain and protect electronics from water to build a full-scale prototype of a hydroponic farming system using AutoCAD and AutoDesk Inventor allowing for visual analysis and water-proofing tests of proposed solutions
- Advanced the functionality of the farming system using Arduino sensors and C++ to gain real time data of total dissolved solids in the system's water tank as well as current ultraviolet light levels to identify whether the hydroponic system was within expected tidal dissolved solids ranges and uv indexes
- Programmed a website with HTML and CSS to display sensor values creating an environment to assist users who lack knowledge of technical information allowing for easier comprehension of sensor readings and outputs

Sumo Wrestling Robot, Northeastern University *Fall 2023 - Spring 2024*

- Conceptualized and engineered a fully autonomous robot utilizing Arduino electrical components and C++ to keep the robot within a circular boundary based upon the robots relative location to the boundary
- Improved robot performance in competition by implementing a distance and location activated robotic arm to increase robot performance against other robots aiming to be the last robot remaining within the boundaries

Ultra High-Performance Concrete (UHPC) Compressive Strength (Personal Project) *Spring 2022*

- Modified existing UHPC curations using cheaper and locally sourced materials to test the ultimate compressive strength of cubic samples of the modified material against control samples composed of existing UHPC ingredients to evaluate the performance of the modified material as an alternative to traditional materials
- Presented findings at the Connecticut Science and Engineering Fair and achieved first place in the ASM Materials Education Foundation award and the Lockheed Martin Physical Sciences category

EMPLOYMENT EXPERIENCE

Enfield Tennis Club, Enfield, CT *Winter 2019 - Present*

Youth Tennis Coach

- Organized and administered summer camps and classes for 100+ tennis players