NICHOLAS J. HARDY

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Education

2020 - 2024 | Boston University
Bachelor of Science (B.S.) in Computer Engineering (Concentration in Technology Innovation)
- 2023/2024 Design Excellence Award, Societal Impact Capstone Project Award

Aug - Dec 2022 | University of Sydney - Study Abroad
Continuation of B.S. in Computer Engineering

Skills

- **Programming:** C/C#/C++, Swift, Python, JavaScript, TypeScript, HTML/CSS, MATLAB, Verilog
- **Development Tools:** Git, Node.js, React, Firebase, MongoDB, Next.js, TailwindCSS, Jest, various microcontrollers
- **Design & Modeling:** SolidWorks, OnShape, Canva, Figma, Adobe Suite
- **Languages:** Native English and Spanish

Experience

- **MARKETS EQ, SOFTWARE DEVELOPMENT AND BUSINESS DEVELOPMENT INTERN**   Oct 2023 - Apr 2024
  - Responsible for integrating Jest into the startup's codebase, significantly enhancing the React application's automated browser testing capabilities, improving performance and development.
  - Actively involved in shaping the go-to-market strategy by contributing to sales decks and marketing efforts to align technical development and business goals.
  - Collaborated closely with Founders on Seed round fundraising, researching and reaching out to venture capital firms, angel investors, and founders to secure financial backing.
  - Contributed to the companies growth, which saw a Q4 2023 revenue increase, reflecting successful implementation of strategic development and marketing initiatives.
- **BOSTON UNIVERSITY, SMART AND CONNECTED SYSTEMS TEACHING ASSISTANT**   Sep - Dec 2023
  - Facilitated learning in embedded systems technologies course (ENG EC444), utilizing ESP32 and Raspberry Pi Nano for hands-on student projects.
  - Assisted students in designing solutions, and provided debugging and testing support for their team designs.
  - Authored starter code and contributed to the curriculum resources to provide a practical understanding of course concepts.
- **BOSTON UNIVERSITY, STRATEGY AND INNOVATION TEACHING ASSISTANT**   Jul - Aug 2023
  - Served as a key resource for students taking Ideas for Impact (QST SI250), offering support and mentorship throughout the course.
  - Guided students through the principles of the Design Thinking methodology by assisting and running lecture discussions.
  - Conducted roll call and contributed to course grading, ensuring smoother administrative operations.
- **PREDDIO TECHNOLOGIES, IoT ENGINEERING INTERN**   May - Jul 2023
  - Played a pivotal role in the start-up's success by actively engaging in diverse areas including, product design and manufacturing, quality assurance, testing, coding, and debugging of proprietary IoT technologies.
  - Collaborated directly with CTO and CEO throughout the design and testing cycle of a new IoT system, ensuring alignment with customer's constraints, subsequently writing a patent application.
- **ROWY, FRONT-END DEVELOPER AND SOFTWARE SUPPORT INTERN**   Jul - Nov 2022
  - Contributed to a variety of projects including A/B testing, documentation, and content creation for an innovative low-code data management Sydney-based start-up.
  - Analyzed user sign-ups and identified potential customers that met specific criteria for targeted outreach, gathering useful feedback to drive product improvements.

Select Project

- **AUGMENTED REALITY GLASSES FOR THE DEAF**   Sep 2023 - May 2024
  - Conceived idea and led team of 5 in the creation of EchoView.ai, a Senior Capstone project aimed at improving communication for the deaf and hard of hearing though affordable Augmented Reality (AR) eyewear.
  - Glasses capable of transcribing speech in real-time, rendering text within the user's field of vision.
  - Developed IOS app enabling the user to customize the text display as well as access their conversation history.
  - Combined expertise in hardware, software, optics, and AI to deliver multifaceted assistive solution.
  - Completed the first prototype, with an ongoing effort to refine the API latency, and overall products design and form factor.
- **For a more comprehensive look at my projects please check out my Portfolio Site made with Next.JS**

Activities

- US YOUTH SAILING TEAM (2017-2019), BU VARSITY SAILING (2020-2022), SAILING INSTRUCTOR (2018-2022)