Ryan Smith

PY44N

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https://www.ryankennasmith.com/

Experience

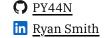**Brown University Intelligent Robot Lab**   **August 2023 - Present**
Lab Member   Providence, RI
 http://irl.cs.brown.edu/

Leading project to design and implement a Visual-Language Model (VLM) to translate task-based videos into Object-Level Planning (OLP) data to enable robot training based on video tutorials, independent of robot type; first author on upcoming publication

Northwell Health, 3D Design and Innovation Lab   **September 2022 - Present**
Research Intern   New Hyde Park, NY
 https://www.northwell.edu/3d-design-innovation

Developed an application that will be used to track the level of oxygen in the portable tanks used for patient transport, and is currently being evaluated for use in the health system; used computer numerical control (CNC) milling to fabricate cartilage grafts for surgical reconstruction; first author on a scientific abstract presented at national meeting

Lemelson-MIT InvenTeam   **May 2023 - Present**
Founder & Team President   Cold Spring Harbor, NY
 https://lemelson.mit.edu/teams/cold-spring-harbor-juniorsenior-inventeam

Leader of one of eight teams in the nation selected for $7,500 research grant and only team to win Microsoft Make What's Next grant; using 3D printing and CAD to create a cost-effective, environmentally friendly, scalable solution to tick mitigation; presented prototype at MIT in June 2024

TTM Technologies   **July 2024**
Summer Research Intern   Farmingdale, NY
 https://www.ttm.com/en

Selected for paid internship as one of 12 high school interns at top-5 global printed circuit board manufacturer

Congressional App Challenge   **September 2023 - April 2024**
Winner   Cold Spring Harbor, NY
 https://www.congressionalappchallenge.us/

Winner of 2023 National Congressional App Challenge (NY01); developed an app to address water quality issues; presented to members of Congress in Washington D.C. in April 2024

Education

Brown University   **2025 - 2029**
Electrical Engineering and Computer Science   Bachelor of Science

Cold Spring Harbor High School   **September 2021 - June 2025**
4.0 UW/4.28 W GPA
 https://www.csh.k12.ny.us/

Academic: 17 AP exams; 36 ACT

Activities: Team Captain, Head of Code and Fundraising, CSH Cyberhawks Robotic team; Editor, The Harbor View School Newspaper; President, Computer Science Club; Founder and President, Engineering Club; Member, Varsity Tennis and Cross Country teams; Member, Band and Pep Band

Skills

Programming Languages   **Tools**

JavaScript, TypeScript, Python, Rust, Kotlin, C++, C, C#, Java,   PyTorch, Linux, Flutter, SQL, Nix
Dart, Lua