

[RYAN WADHWA](#)

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EDUCATION

Greenwich High School, Greenwich, CT

Graduation expected June 2026

AP Coursework: Honors Advanced Calculus, AP Statistics, AP Calculus BC, AP Physics 1, AP Microeconomics, AP Macroeconomics, AP Physics C: Mechanics, AP Physics C: Electricity & Magnetism, AP CSP, AP CSA, AP Precalculus, AP Language & Composition

Honors & Societies: Honor Roll (Grades 9–11); National Honor Society (NHS); National English Honor Society (NEHS); Mu Alpha Theta Honor Society; Rho Kappa Honor Society

SKILLS

Python, Java, JavaScript, HTML, CSS, Arduino & Robotics, Basic Machine Learning (CNNs, model compression), Google Workspace, Public speaking

RESEARCH EXPERIENCE

Independent Science Researcher — Grade 11 Greenwich, CT 2024–2025

Leveraging Neural Network Design to Create High-Accuracy, Low-Latency Detection of Deepfake Deception

- Built a one-click deepfake detector optimized for regular PCs; extending to real-time flagging for Zoom calls.
- Protecting senior citizens from online fakes and financial scams.
- Publication: Curieux Academic Journal.
- Awards: 3rd Prize, Computer Science, Infosys Foundation Award-Connecticut Science & Engineering Fair.

https://www.curieuxacademicjournal.com/files/ugd/99711c_4fcd4e7c9254972a5209939ccd77b92.pdf

Independent Science Researcher — Grade 10 Greenwich, CT 2023–2024

Rapid Detection of Stress Biomarker Cortisol via a Molecularly Imprinted Polypyrrole Sensor

- Designed a paper-thin biosensor demonstrating rapid detection; recognized by judges for usability.
- Biotech medalist & finalist at CT science fair.

Independent Science Researcher — Grade 9 Greenwich, CT 2022–2023

Cryptomelane-Type Manganese Oxide Free-Standing Membranes for Removal of Oil Contaminants in Water

- Developed and tested a reusable membrane material that achieved ~75% oil recovery efficiency from contaminated water samples.
- Awards: U.S. Airforce & Biotech Award; Connecticut Physical Science Finalist.

LEADERSHIP & TEACHING Founder & Lead Greenwich, CT Summer 2024 and 2025
(Instructor — Student-Led Robotics Camp) (Greenwich town hall)

- Founded & ran a student-led, low-cost robotics camp (ops, curriculum, teaching, marketing, venue, parent comms) → 38 students served; 100% built and programmed a robot.
- Each student built and programmed a robot from scratch, combining mechanical design with coding fundamentals; excellent parent feedback and pre-registrations requested for 2026.
- Raised \$8,500 while maintaining accessible pricing to broaden access for underserved students and girls in STEM.
- Featured in Greenwich Free Press; earned Town Hall sponsorship for future programs.

<https://greenwichfreepress.com/schools/robotics-rigor-and-real-world-skills-student-led-camp-brings-stem-to-life-235028/>

Lead Instructor — Code Ninjas **Greenwich, CT** **2023–2025**

- Co-designed and taught courses for 55 students; ~90% completed a final project.
- Invited to join as a permanent instructor to advance STEM education programming.

Fulfillment Center Intern — Crown Awards **Hawthorne, NY** **Summer 2024**

- Assembled & shipped 100+ multi-part trophies in a fast-paced warehouse environment.
- Gained hands-on experience across all warehouse operations: part delivery, assembly, and final shipment.
- Mapped pick/pack workflow and proposed a barcode-based verification step to reduce SKU-check time and errors.

ACTIVITIES & SERVICE

Soccer — JV / Club Captain **Greenwich High School** **Aug 2021–Mar 2023**

- Only freshman selected to JV; helped lead team to Connecticut Club States.

Volleyball — JV/Varsity – Grade 11 **Greenwich High School** **Jan–May 2025**

- Represented Greenwich HS at FCIACs; developed time-management, teamwork, and pressure performance.

Leaders of the Next Generation (LNG) **Volunteer** **2023–2025**

- Supported Greenwich Audubon events and bake-sale fundraising; led free tutoring for middle-school students.

Arya Samaj **Volunteer** **2021–2024**

- Youth leadership teaching sanskrit prayers to younger students
- Organized blood drives; collected 50 pints of blood for Westchester Blood Bank (2023–2024).
- Organized food drives, Coordinated donations of 2,000+ units of food for families in need.
- Emceed community events for 100+ participants; performed Punjabi cultural dance presentations.