



# HARVARD COLLEGE RESUME EXAMPLE (ENGINEERING)

*Undergraduate Resource Series*

Mignone Center for Career Success | 54 Dunster Street

Harvard University | Faculty of Arts and Sciences

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MIGNONE CENTER  
FOR CAREER SUCCESS

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## Robert Garcia

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### Education

#### Harvard University

Cambridge, MA

Bachelor of Science: Mechanical Engineering. GPA: 3.55

May 2027

Relevant Coursework: Computer Aided Machine Design, Thermodynamics, Engineering Design Seminar, Solid Mechanics, Mechanical Systems, Materials, Data Structures and Algorithms.

Design Project: Aerobic Charge: Converting kinetic energy during exercise to electrical charge.

#### Hartford High School

Hartford, CT

Salutatorian. Honors Science Program. 1<sup>st</sup> place winner, Robot Challenge.

June 2023

### Engineering Research Experience

#### Harvard University Laboratory for Nanoscale Optics

Cambridge, MA

Research Assistant

June – Aug 2025

- Optimize the dry etch recipe for titanium dioxide and polycrystalline diamond thin films.
- Fabricate photonic devices (ridges, ring resonators, microdisks, photonic crystals) in TiO<sub>2</sub> and polycrystalline diamond films.
- Characterize the fabricated photonic devices using a transmission setup.

#### National Nanotech Research Center

Pasadena, CA

Research Experience for Undergraduates Intern

June – Aug 2024

Project: Microfabrication of Thin-film Heaters to Simulate Hotspots.

- Fabricated devices for testing the effectiveness of a nanoscale patch used to cool down hotspots on microprocessors.
- Utilized cleanroom facilities to create devices that contain a hotspot heater and temperature sensors to simulate heat generation.

### Additional Experience

#### Harvard School of Engineering and Applied Sciences

Cambridge, MA

Course Assistant

Sept 2025 – present

- Hold weekly office hours, providing tutoring and problem set instruction for students in Computer Science 50: Introduction to Computer Science.

### Leadership and Activities

#### Harvard College Engineering Society, Vice President

Sept 2024 – present

- Organize monthly meetings and activities for the engineering community at Harvard.
- Host guest speakers, manage communications, and plan events.

### Projects and Skills

**Projects:** Electric Bicycle: designed electrical and mechanical systems for custom 1kW bike  
Smart Appliance: IoT toaster based on Raspberry Pi, Python code, & 3D-printed body

**Laboratory:** Cleanroom fabrication experience, including photolithography, e-beam lithography, metallization, thin film deposition, etching, metrology, SEM imaging.

**Technology:** Advanced HTML, CSS and programming in C, PHP, JavaScript, Python.  
Intermediate MATLAB, SolidWorks, Adobe Creative Suite, Google SketchUp.

**Languages:** Spanish (intermediate), German (beginner).