

RONALD GARCIA

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EDUCATION

Johns Hopkins University, Baltimore, MD
Mechanical, Computer, & Electrical Engineering

Enrolled: August 2022 — Expected: May 2026
Overall GPA: 3.90

EXPERIENCE

Capital Educators
SAT Teacher

Baltimore, MD
January 2024

- Teach a class of no more than 10 students and improve their SAT/ACT scores by over 100 points. Meet with students every week on Sundays and teach about math section topics and techniques.

JHU Physics Department
Learning Assistant

Baltimore, MD
January 2024

- Hosting office hours and leading TA sections for Physics 2 students, tutoring over 50 students a week.

FLI Network
Hop-In Peer Leader

Baltimore, MD
June 2023 – August 2023

- Collaborated with a team of 7 other Peer Leaders to develop community events for 40 incoming FLI freshmen.
- Budgeted \$300 for over 35 community events, and facilitated 4 excursions and day-to-day life for students (classes, study time, workshops).

Resident Advisor
RA

Baltimore, MD
August 2024 - May 2025

- Foster a welcoming community for undergraduates at The Johns Hopkins University residential dormitory McCoy
- Plan and facilitate campus and dorm events to engage students.
- Perform inspections, mediate conflicts, and ensure the safety of all residents at Johns Hopkins.

JHU Learning Den
Tutor

Baltimore, MD
September 2023

- Personalized one-on-one tutoring environment with students, in Calculus I, II, III, Physics 2, Intro to Mechanics 2, Electronics and Instrumentation, Gateway MATLAB, and Physics 1.

PROJECTS

The Mechanically-Chargeable Car Race
August 2022 - December 2022

Baltimore, MD

- The Mechanical Engineering Department at Johns Hopkins University hosted a race where teams design a small wheeled vehicle that is able to:
 - Receive the energy from a 5-pound weight falling 5 feet.
 - Store the energy and
 - Release and use the energy to go forward 25 feet.
- Worked in a team, aided with laser cutting and designing the hull, free-wheel mechanism, and CAD models of the vehicle.

The Piano Game
August 2022 - December 2022

Baltimore, MD

- The Mechanical Engineering Department at Johns Hopkins University hosted an exhibition where teams design a carnival game that teaches the user about a certain country.
- Worked in a team, programmed the game in Arduino.
- Aided in the CAD models and the manufacturing of the hull using jigsaw and laser cutter.

SKILLS

- **Relevant Coursework:** Mastering Electronics I & the Lab, Intermediate Programming, Data Structures, Computer System Fundamentals, Statics & Mechanics of Materials, Manufacturing Engineering, Mechanics Based Design.
- **Programming:** C++, Java, C, Python, MATLAB, C#, Javascript, HTML, CSS, Typescript, REACT.js.
- **Software:** JupyterLab, Solidworks, LTSpice, MATLAB Simulink, Visual Studio Code, Overleaf.
- **Communication:** Leadership, over 8 years of tutoring/teaching experience.