

# Brandon Carido

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## EDUCATION & HONORS

**Vassar College** – Poughkeepsie, NY

Expected Graduation: May 2025

Major: **Computer Science** Minor: **Mathematics**

**GPA: 3.79/4.00**

**Notable Courses:** Foundations of Computer Science, Language Theory and Computation, Robotics, Artificial Intelligence, Parallel Programming, Multivariable Calculus, Linear Algebra, Probability, Applied Math, Microeconomic Theory, Compilers\*, Computer Organization\*, Analysis of Algorithms\*

**Dartmouth College** – Hanover, NH

Expected Graduation: June 2026

Major: **Electrical Engineering (BE)**

**GPA: 3.78/4.00**

**Notable Courses:** Digital Electronics, Electronics: Introduction to Linear and Digital Circuits, Software Design & Implementation, Control Theory, Distributed Systems and Fields, Introduction to Engineering

## TECHNICAL SKILLS

**Python**

**Java**

**Ocaml**

**VHDL**

**C**

**VSCode**

**R & RStudio**

**SQL**

**MATLAB**

**Vivado**

## RELEVANT EXPERIENCE

**Genesys Cloud Services** – Menlo Park, CA

May 2024 – August 2024

*People Analytics Intern*

- Leverage SQL to run complex queries, creating a comprehensive centralized viewpoint for Workforce Analytics
- Collaborate with the People Analytics team to problem-solve and develop solutions for internal issues
- Analyze data to identify quantifiable trends providing HR insights for evidence-based decision-making

**Analog Electronics Project** – Dartmouth College

December 2023

*Heart Rate Monitor*

- Developed analog heart rate monitor detecting 60-100 BPM range for precise heartbeat measuring
- Constructed with resistors, capacitors, and integrated circuits to apply lecture-learned theory for creation
- Calculate component values and extensively simulated in PSpice to implement actual circuit with accurate values

**Control Theory Project** – Dartmouth College

December 2023

*Sensor-Controller “Duck” Car*

- Developed a sensor-controlled car that would detect obstacles in front to maintain a calibrated distance
- Calculated for Proportional-Derivative controller based on poles & zeros found using MATLAB’s “SISOTOOL”
- Implemented the controller with analog components on a breadboard housed on the car chassis

**DataFest 2023** – Vassar College

August 2023

*Best Analysis Winner*

- Analyzed 100+ rich data sets with a team to quantify trends to optimize Pro Bono work for lawyers using RStudio
- Presented the findings to a panel of judges to elaborate on the specific work done to assist the lawyers
- Awarded Best Analysis by esteemed panel of judges, highlighting exceptional analytical skills and recognition

## LEADERSHP & INVOLVEMENT

**Curious Cardinals** – Palo Alto, CA

January 2024

*Mentor*

- Fostering a spirit of inquiry and exploration in aspiring individuals from ages 11-17 through a matching process
- Teach lessons through Zoom by individual planning to explore and develop fields of interest of the mentee
- Develop a learning plan while managing a full schedule of mentees in order to teach seamlessly

**Quantitative Reasoning Center** – Poughkeepsie, NY

August 2022 – May 2023

*Q-Tutor*

- Instruct and encourage peers with assignments pertaining to Mathematics, Physics, and Economics
- Spend 8 hours a week working with and supporting an average of 12 students

## ADDITIONAL INFORMATION

**College Bound Opportunities Scholar:** Chosen through a highly selective process by an organization which mentors, empowers, and inspires first generation scholars to overcome barriers, graduate college and achieve success

**Recognition:** Quest Bridge National Match Finalist (Among 6,312 students out of 16,500 applications selected)

**Interests:** Recreational Percussion | Basketball | eSports | Perpetual Learning