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