

# Christopher Vella

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## - Summary -

Computer engineer entering the STEM field with six years of experience in robotics and two years of software experience in data structures, algorithms, and web design. Planning to enter a career with an emphasis on computer hardware to innovate, design, and improve efficiency.

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## - Education -

### **Bachelor of Science in Computer Engineering**

*Lehigh University, Bethlehem, PA*

Dean's List      GPA: 3.78  
Expected Graduation: May 2024

- Relevant Courses:

- Calc I/II/III, Linear Methods, Physics I/II, Probability and Statistics
- Intro. to Electrical Engineering, Intro. to Computer Engineering, Electronic Circuits, Microcontroller Laboratory, Computer Architecture
- Programming and Data Structures, Systems Software, Discrete Structures and Algorithms, Computer Architecture and Organization, Artificial Intelligence Theory and Practice

### **High School Diploma**

*Don Bosco Preparatory High School, Ramsey, NJ*

GPA: 4.11

- Graduated with highest distinction and from within the Math, English, and National honor societies. Awarded a scholarship for excelling scholastically.
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## - Skills -

Java, C++, C, VHDL, JavaScript, HTML, CSS, Python, NumPy, Pandas, Arduino, Matlab, Raspberry Pi, SolidWorks, Microsoft Office, Problem-solving, Willingness to learn, Teamwork, Leadership experience, Project Management, Detail oriented, Communication

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## - Experience -

**Formula SAE**, Electrical Member and EV Team Lead

Fall 2020 – Present

*Lehigh University, Bethlehem, PA*

- Leads the team's transition from an internal combustion vehicle to an electric vehicle.
- Sole designer for the data acquisition harness on our car, made using Solidworks.
- Currently designing mounts for the sensors in the data acquisition harness.

**Lehigh University Space Initiative**, Robotic Arm Team Lead

Fall 2021 – Present

*Lehigh University, Bethlehem, PA*

- Co-Leads the planning, designing, and engineering of the robotic arm of the rover to compete in the University Space Challenge.
- Ensures that major designs are finished on time and assists team members.

**Teaching Assistant**, Applied Engineering Computer Methods

Fall 2021 – Present

*Lehigh University, Bethlehem, PA*

- Helps teach students how to use python to solve engineering problems, display information in a meaningful manner, and use a raspberry pi to control motors and read in sensor data.

**FIRST Robotics Competition**, Competitor and Leader

Spring 2016 – Spring 2020

*Don Bosco Preparatory High School, Ramsey, NJ*

- Worked with a team and led the electrical sub-team to construct two robots from scratch each year to compete in local and state FIRST competitions.
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## - Achievements -

- Eta Kappa Nu (ECE Honor Society) Membership

Fall 2021 – Present

- Lehigh University Dean's List

Fall 2020 – Present