

# Benjamin Orndorff

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## Education

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### University of Virginia, Charlottesville, VA

*Expected May 2023*

- Bachelor of Science in Computer Science
- Cumulative GPA: 3.900/4.000

### Fairfax High School, Fairfax, VA

*August 2015 - May 2019*

- Graduated with an Advance Diploma
- Cumulative GPA: 4.23/4.00

### Relevant Coursework

- *Past:* AP Computer Science A, Adv Computer Science AB
- *Fall:* CS 2110 Software Development Methods, ENGR 1624 Introduction to Engineering, STS 1500 Science, Technology, and Contemporary Issues
- *Spring:* CS 2150 Program and Data Representation, CS 2102 Discrete Math, ECE 2330 Digital Logic Design

## Projects

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### Animal Crossing Music Player

*October 2018*

- A java program that functions as an hourly radio player by playing music based on the user's time
- Created for CavHack Hackathon, an 8-hour competition, to be judged in the java category
- Implemented threading, java swing GUI, file input and reading, and sound functionality
- Awarded runner up in creative category at the hackathon
- Reworked in March 2020 to be a bot using node.js

### Media Assistant Discord Bot

*March 2020*

- A project created and submitted for the HooHacks 2020 hackathon
- A Discord Bot that acts as a watchlist for animated media using typed user commands
- Implemented using Node.js as well as extensive use of Git for project management

### Solenoid Energy Harvesting Provisional Patent Application (PPA)

*November 2019*

- An Assignment for STS 1500 to generate an engineering concept that fulfills an UN sustainable development goal, prepare a PPA for it, and then pitch it
- The project required extensive team collaboration for research of prior art, writing the PPA, and preparations for public speaking.

## Experience

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### UVA Solar Car Team

*September 2019 - Current*

- Member of the solar sub-team that is working on integration of solar panels onto the solar car
- Performed analysis on solar panels to find voltage, current, and irradiance
- Collaborated with other sub-teams to manufacture the solar system on the car

### Fairfax High School Science Olympiad

*September 2017 - May 2019*

- Elected as engineering captain for the 2018-2019 season
- Competed at multiple national and state level tournaments in engineering and inquiry events
- Helped organize and run Fairfax Invitational and Fairfax Regional Tournaments in 2019
- Organized Fairfax team for competitions

## Skills

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- Experience in C++, Node.js, HTML/CSS, Git, Excel, and MATLAB
- Proficiency in Java