Benjamin C. Boardley

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Professional Profile

Skills: C, Python, JavaScript, MATLAB, Data Structures and Algorithms, SQL, Git/GitHub, VS Code, Circuit Analysis, Breadboarding, Microsoft Office, Linux

Awards: Purdue University Dean's List, Penn Highschool Valedictorian

Clubs: Purdue IEE ROV (Remotely Operated Underwater Vehicles) Software Engineering Team, LPCV Competition Organizer

Education

Purdue University	Penn High School
2021-2024 (Expected)	**2017-2021**
Bachelor of Science in	Graduated Summa Cum Laude and Valedictorian
Computer Engineering	GPA: 4.4
CGPA: 3.93 MGPA: 4.0	

Projects

File Compression Program
- Created a file compression program using the Huffman encoding algorithm
- Required the use of linked lists, BSTs, and other structures in C to decrease the number of bits needed to present a file

Web Development
- Taught myself Django, Java Script, HTML and CSS to create simple emailing and social media like frameworks, that interact with APIs and MySQL databases

IEEE ROV
- Manipulated an array of uint8s sent from the solenoids to convert it to a message type that can be sent across the can bus
- Work with OpenCV to implement camera vision into our ROV

File Transfer Service
- Created a file distribution system between two Linux computers that are connected on the same network.

Work Experience

Low Power Computer Vision Competition

Backend Organizer

February 2023-Present
- Create Automation using different scripting tools and techniques.
- Collaborate with team members through Github
- Document work in an effective and clear manner.

Purdue University Teacher's Assistant

CS 159000 – C Programming

January 20223-Present
- Lead a lab section in which I explain programming concepts to students
- Grade homework and labs for the students

ECE 20001 – Electrical Engineering Fundamentals I

August 2022-Dec 2022
- Communicate complicated ideas in a clear manor to students
- Host office hours to help students analyze complex circuit schematics
- Help instructors with the management of their recitation section and students

Aunalytics

Project Management Intern

May 2022-August 2022
- Managed the safe and organized transfer of Data between software along with strict documentation of the transfer
- Coordinated event shipments to various locations throughout the country, by communicating with the marketing leads