

Permanent Address:
Herndon, VA

Jason Albanus
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Current Address:
Blacksburg, VA

Education

Virginia Tech, Blacksburg, VA
Bachelor of Science: Computer Engineering primary focus Machine Learning
3.59 GPA

August 2022 - May 2026

Technical Experience

Solar Car Design Team
Telemetry Team Member

September 2024 - Present

- Designed and implemented driver and pit crew user interfaces on a Raspberry Pi, utilizing various libraries and software tools for precise, real-time data visualization
- Collaborated closely with data collection team to refine data acquisition methods, improving telemetry accuracy and system reliability

Virginia Tech, Blacksburg, VA
Bayesian Flower Classifier

January 2024 - May 2024

- Engineered a machine learning algorithm utilizing the IRIS data set, segmenting data into training and test groups to accurately predict 3 species classifications
- Utilized Bayes' theorem for probabilistic and statistical analysis, yielding precise predictions on previously unseen test data

Virginia Tech, Blacksburg, VA
Home Audio System

January 2024 - May 2024

- Designed and executed a three-band graphic equalizer and high-efficiency class-D amplifier, delivering precise audio control and dynamic visualization through a custom OLED spectrometer
- Programmed a microcontroller (Arduino Uno) for PWM signal generation, overseeing hardware interfacing, signal processing, and user interface design through advanced prototyping and LTspice simulations

Core Competencies

- Technical: C++, Java, C, Matlab, Python, DC Circuit Analysis, Microsoft Office Suite (Word, PowerPoint, and Excel)

Activities & Volunteering

Institute of Electrical Engineers: Virginia Tech Chapter
Member

February 2023 - Present

- Collaborated with peers and many engineering professors to facilitate both personal and professional growth
- Engaged in a variety of technical workshops, dynamic discussions, and exclusive networking events, thereby enhancing expertise in current industry trends and emerging technologies

Epsilon Sigma Alpha
Junior Recruitment Chair

September 2023 - May 2024

- Demonstrated a steadfast commitment to community service through active engagement in philanthropic initiatives and volunteer projects, generating significant impact both locally and internationally
- Assisted the senior recruitment chair in proactively inviting external students to volunteer events, successfully attracting crowds of over 100 participants

Work Experience

Virginia Tech Dining Services, Blacksburg, VA
Student Assistant Manager

October 2023 - September 2024

- Managed daily operations of designated dining hall sections, ensuring efficient workflow and compliance with health standards. Delegated tasks among student workers, fostering a collaborative and productive work environment