

David Holland

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EDUCATION

University of Virginia- School of Engineering, Charlottesville VA

2028

Bachelor of Science in Computer Engineering

Relevant Course Work Taken: Digital Logic Design, Intro to Programming, Applied Physics, Multivariable Calculus, Data Structures and Algorithms.

PROJECTS & EXTRACURRICULAR

Simple Central Processing Unit (CPU)

Jan-May 2025

- 8-Bit CPU designed in Intel's Quartus II that can perform arithmetic, execute logic, and move and store data.
- Built data path and control unit from combinational and sequential components including ALU, register file, multiplexers, decoders, counters, and timers.
- Quartus II was used to first to design or code using VHDL, each component.
- Verified functionality of modules through structured testbenches and RTL simulation.
- Integrated components into a complete processor and tested with sample programs.
- Gained hands-on experience in digital system design, hardware description languages (VHDL), and FPGA Design Software (Quartus II).

Personal Website

June 2025

- Personally designed and coded a portfolio website using HTML, CSS, and JavaScript.
- Hosted the repository on GitHub Pages with a personal domain for professional presentation.
- Implemented a responsive layout ensuring accessibility across desktop and mobile devices.
- Integrated interactive features (e.g., navigation menus, animations, project previews) to enhance user experience.

Volunteering

Jan-Current

Younglife Leader

- Led weekly student groups, fostering engagement, personal growth, and a supportive community.
- Mentored and guided students, fostering personal growth, leadership, and teamwork skills.
- Developed and implemented outreach strategies to connect with new students and build relationships.

PROFESSIONAL EXPERIENCE

Bruster's, Culpeper VA

2021-2024

Shift Lead

- Supervised team members and managed daily shift operations.
- Delivered attentive and responsive service to meet individual customer needs.
- Improved product recommendations and increased sales.
- Collaborated with team members to ensure a premium customer experience.

SKILLS

Programming languages: VHDL, Python, Java, HTML, CSS, JavaScript

Computer software/ frameworks: Quartus II, GitHub, Microsoft Suites, Google Suites, Autodesk Fusion

Additional Skills: Team Management, Customer Service, Communication