Ashley Dennis

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EDUCATION

Bachelor of Science in Computer Engineering and Mathematics | August 2023 - May 2027

Florida Agricultural and Mechanical University | Tallahassee, FL

Relevant Coursework:

Fundamentals of Programming | Discrete Structures | Digital Logic Design | Intro to Electrical Engineering | Microprocessors | Signals and System Analysis | VHDL | Differential Equations | Computer Architecture

EXPERIENCE

Intel Semiconductor Program May 2025 - July 2025

FAMU-FSU College of Engineering | Tallahassee, FL

- Participated in an intensive training program focused on equipping students with **semiconductor industry skills**
- Participated in workshops on chip design, fabrication, and industry trends, applying advanced design concepts

Magnetic Momentum Scholar January 2025 - April 2025

National High Magnetic Field Laboratory | Tallahassee, FL

- Completed a 6-week research rotation in instrumentation, computer modeling, and materials analysis
- Mastered lab technique, data visualization, and technical communication skills, driving a **20% increase in lab productivity** utilizing Python, Tableau, and MATLAB

bp HBCU Fellow June 2024 - August 2024

bp (British Petroleum) | Houston, TX

- Collaborated with bp's **Digital Science** team to research emerging technologies and presented findings to company
- Researched **Seed AI** technologies, analyzing implementation strategies and enterprise applications for self-improving AI systems

PROJECTS

Smoke Alarm Controller System May 2025 - June 2025

Digital Logic Design | Tallahassee, FL

- Developed digital smoke alarm on DE1-SoC FPGA using **Quartus**, enhancing alert efficiency
- Engineered **Verilog** modules in **Quartus** to implement combinational alarm logic on FPGA

Smart Shunt Pressure Monitoring System September 2024 - Present

Personal Project | Tallahassee, FL

- Designed a real-time cerebrospinal fluid monitoring system using AI and semiconductor-based pressure sensors
- Exploring future implementation on microcontroller platforms such as Arduino or Raspberry Pi

INVOLVEMENT

- Goldman Sachs Market Madness Program | Dec 2024 - May 2025
- Bank of America 2025 Campus to Careers Women's Forum | Jan 2025
- Phi-Delta Chapter of Theta Tau | Oct 2024 - Present
- Science and Technology Living-Learning Community | Aug 2023 - May 2024
- National Society of Black Engineers (NSBE) | Aug 2023 - Present
- Institute of Electrical and Electronics Engineers (IEEE) | Aug 2023 - Present
- Black Data Processing Associates (BDPA) | Aug 2023 - Present

KEY SKILLS

Languages: C++, Python, Verilog, MATLAB, FPGA, Quartus, CCS, Simulink