Daniel Sarria

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Junior at the University of Virginia majoring in Computer Engineering in the School of Engineering and Applied Sciences. Focused on computer hardware and design. Interests include coding and designing/building circuits with an overall curiosity of new technologies.

Education

University of Virginia May 2025
Bachelor of Science in Computer Engineering *Current GPA: 3.7/4.0*
Stamford High School June 2021
IB and AP Classes *GPA: 4.0/4.0*

Relevant Coursework

Courses: Electrical and Computer Engineering Fundamentals; Digital Logic Design, Software Development Essentials, Data Structures and Algorithms, Computer Systems and Organization, Intro to Cybersecurity, Calculus, Probability
Awards: Dean's List (University of Virginia: Fall and Spring Semester)

Skills

Languages: C, Java (Main Language), Python, HTML/CSS (Self-taught), LaTeX, VHDL
Tools: Git/GitHub, Powershell, VS Code, IntelliJ IDEA, Eclipse, x86_64 AT&T Assembly, VIM, LLDB Debugger
Circuit & PCB Design: National Instruments Multisim, Analog Discovery Waveforms

Projects

Voltage Boost Converter | *NI Multisim, Waveforms* December 2021
- Collaborated with a team to design a voltage boost converter
- Analyzed specific hardware, such as potentiometers, inductors, and capacitors, in order to construct the boost converter
- Designed a PCB that needed to meet various requirements
- Soldered hardware onto PCB

Active Filter Network for Audio Signal Processing | *Java, NI Multisim, Waveforms* December 2022
- Collaborated with a team to design a PCB that separates the high and low frequencies to process audio signals in real time
- Designed high pass and low pass filters using variations of operational amplifier circuits and analyzing specific electronics hardware, such as MOSFETS and diodes

Electrocardiogram (ECG)|*Python, NI Multisim, Waveforms,* December 2023
- Collaborated with a team to design an ECG, integrating advanced concepts in electronics and signal processing, to accurately measure heart rate
- Designed Instrumentational Amplifiers, integrated Sallen-Key filters to refine ECG signals, implemented isolators for input/output signal isolation; Developed code for post-processing raw signals, effectively eliminating interference

Experience

Laser & Plasma Technologies LLC | *Intern* January 2023-Present

In Progress

Target | *Target Security Specialist* June 2022-Present

Research previous and recurring incidents utilizing Asset Protection Database

Documenting known theft reports and productive merchandise recoveries