

Nathan Rizza

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GitHub: github.com/NathanRizza Website: nathanrizza.com

Skills

Engineering Tools: ModelSim, Quartus, Solid-Works, MATLAB, VS 2019

Programming/Markup Languages: C, C++, VHDL, Python, Java, JavaScript, PHP, HTML, Latex, Shell scripting

Database Services: Amazon Web Services, MySQL

Familiar Computer Environments: Windows, GNU/Linux, Mac

Education

Undergraduate: Saint Vincent College, Fall 2017-Spring 2021

Major: Mechanical Engineering

Minors: Computer Science, Math

GPA: 3.7

Graduate: University of Florida, Fall 2021 - Ongoing

Department: Electrical and Computer Engineering

Track: Computer Architecture

Work Experience

Graduate Assistant - University of Florida, January 2022 - Ongoing

Performed research on computer hardware security methods for the Electrical and Computer Engineering department under Dr. Farimah Farahmandi.

Electrical Engineer - SurfPlasma, September 2021 - December 2021

Designed a controller to regulate power to the portable plasma reactors based on the reading of different sensors for consumer and corporate use cases. Performed research and published findings on the device's performance in O₃ concentration.

Research and Projects

Soft Materials Tester Fall 2020- Spring 2021

Designed and built an Arduino micro-controller based fully operational soft materials tensile tester for the Saint Vincent College Engineering Lab.

Decision Making Through Risk Minimization Algorithm 2020-2021

Wrote literature reviews, created 3D printed parts in CAD software, and aided in circuitry design. Produced an Arduino controlled electronic car which could change velocity depending on external variables.

Cryptocurrency Development Assistance 2017-2018

Helped the development of a cryptocurrency by testing software on various operating systems and writing bug and performance reports.