Nathan Shoults

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Nathan-Shoults.github.io/portfolio

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EDUCATION

Northern Arizona University — *B.S. in Electrical Engineering*

Aug 2021 - May 2024   **3.2 GPA**

Directed a multidisciplinary team of three graduate Mechanical Engineers and two Electrical Engineers in the design, construction, and implementation of a Scanning Tunneling Microscope. Achieved atomic resolution microscopy for quantum dot research within the School of Informatics, Computing, and Cyber Systems at Northern Arizona University. Reorganized and worked with the College of Engineering, Informatics, and Applied Sciences to allocate a space for the IEEE club.

Santa Rosa Junior College — *General Education*

Aug 2020 - May 2021

EXPERIENCE

IEEE Club at NAU — Vice President

Dec 2023 - May 2024

Assisted in the planning and fundraising for competitive events for the following year such as the Arizona Robotics League.
Tutored first and second year EE students in classes including but not limited to: Calc 3, Differential Equations, EE 188, EE 101, EE 385, EE 404

McMillan Bar and Kitchen — manager, bartender, server, bouncer, host, and dishwasher

 Aug 2022 - May 2024

Gained an in-depth understanding of what is required to run a restaurant business. Was the sole maintenance personnel for the oldest standing building in flagstaff (1886).

Cliff Construction — Carpenter, Electrician, Solar PV installer

 May 2022 - Aug 2022   May 2023 - Aug 2023

Contributed to the construction of ten cost-effective homes in Santa Rosa, gaining an in-depth understanding of the processes involved in building both commercial and residential real estate.

SKILLS

Experienced in the following programming languages:

C, C#, C++, python, html, CSS, G-code, Basic, HLA, Java, Microcode, OpenCL, simulink, Matlab,

Experienced with oscilloscopes, digital multimeters, function generators, Arduino, Raspberry Pi, and a plethora of microcontrollers and SBC's.

Proficient in the setup, calibration, and troubleshooting of advanced lab equipment such as signal analyzers, spectrum analyzers, and logic analyzers, ensuring accurate data collection for experimental and research purposes.

Seven years experience with Fusion 360, SolidWorks, and SLS 3D printing

AWARDS

Graduated with Honors from Northern Arizona University

Doyle Scholarship during enrollment at SRJC

Certificate of Extraordinary Personal Action from American Red Cross for assisting in the relocation of people during the 2017 wildfires