

Steven N. Provencio

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Summary of Qualifications

- Intermediate knowledge of C, Linux, MATLAB, Simulink, and Raspberry Pi 3
- Beginner experience with Multisim, Altera Quartus, ModelSim softwares
- Introductory experience with Python, JavaScript, Verilog, HTML, Bash, and assembly languages
- Foundational experience with FPGAs and Arduino Uno, MSP430, and ESP32 microcontrollers

Education

Northern Arizona University: Flagstaff, Arizona

Aug 2019-May 2024

- Bachelor of Science in Electrical Engineering
- Lumberjack Scholar: 4-year tuition scholarship
- Member of Louis Stokes Alliance for Minority Participation (LSAMP)

Work Experience

Sparkle Magic: Chandler, Arizona

Jul 2017-Jan 2020

- Expedited the packing and shipping process of the decorative laser system
- Tested lasers for quality control and to ensure product met requirements of 21 CFR 1040, Class 3a lasers

Someburros: Flagstaff, Mesa, and Chandler, Arizona

Jun 2021-May 2024

- Managed kitchen operations as a Line Cook in a high-volume restaurant, leveraging strong communication and teamwork to lead a small team in a fast-paced environment.
- Worked a 15–30-hour work week in addition to taking engineering studies

Projects

NAU Capstone

- Designed, tested, and constructed a finger clamp style heart rate monitor system.
- Utilized ESP32 Wi-Fi microcontroller, MAX30102 PPG sensor, 3D printed parts, and MATLAB
- Processed Photoplethysmography (PPG) signals, acquired from the MAX30102, with the ESP32 and used MATLAB for filtering and visualization.

MagicMirror

- Created by using Raspberry Pi running Raspbian OS, Github and Raspberry Pi touch screen
- Integrated real-time data APIs for dynamic content display
- Assembled and integrated custom hardware components, ensuring functionality and durability

Personal Website

- Constructed and designed a website using WordPress, hosted on Hostinger, and purchased the domain through Google. (<https://onlysteev.com/>)
- Utilized daily as a homepage, contains quick links to my frequently used websites as well as pages related to personal projects, music, and personal bio