RYAN BLAKE BUSSEY

Embedded Software Engineer

Relocating to Greater Boston Area | June 2027

El Paso, TX | (972) 345-4222 | ryan@rbussey.com

Portfolio: https://rbussey.com | LinkedIn: https://linkedin.com/in/ryan-bussey

PROFILE

Computer engineering graduate with hands-on embedded capstone experience and professional experience in deployment automation, device configuration, and technical troubleshooting. Built an Arduino-based Formula SAE shifting system integrating servo actuation, paddle inputs, and a Raspberry Pi gear display. Brings a hardware-software integration foundation alongside practical experience supporting complex computing environments.

TECHNICAL SKILLS

Programming: C, C++, Python, assembly; Verilog, VHDL, MATLAB (academic experience)

Embedded & hardware: Arduino Nano Every, Raspberry Pi, servo actuation, microcontrollers, FPGA design, PCB design fundamentals

Systems & validation: Hardware-software troubleshooting, torque testing, Linux, Windows, macOS, deployment scripting, technical documentation

EMBEDDED ENGINEERING PROJECT

Formula SAE Electronic Shifting System

Computer engineering capstone | Northern Arizona University

- Designed and developed an electronic gear-shifting system for a Formula SAE race car using an Arduino Nano Every and a 12V servo motor.
- Implemented paddle-button upshift/downshift controls and shift logic covering Neutral through 6th gear; integrated a Raspberry Pi dashboard to display the current gear.
- Conducted servo torque tests and collaborated with the mechanical team on multiple housing iterations to fit the vehicle frame.

EDUCATION

B.S. in Computer Engineering | Northern Arizona University | 2025

Academic focus: embedded systems, digital logic, computer architecture, microcontrollers, FPGA design, circuit analysis, and hardware-software integration.

PROFESSIONAL EXPERIENCE

Instructional Technologist III

University of Texas at El Paso, College of Education | *Jun 2026 - Present*

- Oversee classroom AV, computer labs, specialized instructional systems, and endpoint deployment/configuration for the College of Education.
- Troubleshoot instructional-technology escalations and coordinate technical projects, documentation, and user training.

PROFESSIONAL EXPERIENCE | CONTINUED

Enterprise Desktop Management Specialist

University of Texas at El Paso, Technology Support | *May 2025 - Jun 2026*

- Created and managed deployment scripts for software distribution, OS imaging, and system updates across enterprise endpoints.
- Administered Jamf Pro and Microsoft Intune for macOS, iOS, Windows, and Android; deployed configurations, applications, and compliance policies.
- Provided tier-3 support for complex endpoint, application, and integration issues; documented configuration standards and troubleshooting procedures.
- Developed ServiceNow UI Actions, catalog items, and automated workflows supporting IT service delivery.

Senior IT Support Analyst

Northern Arizona University | *Feb 2022 - May 2025*

- Diagnosed hardware, software, and network issues across Windows and macOS; used BeyondTrust, Active Directory, LAPS, SCCM, and ServiceNow.
- Deployed Teams telephony equipment and provisioned Android devices through Microsoft Intune.

Senior Student Technician

Northern Arizona University, Student Technology Center | *Aug 2019 - Feb 2022*

- Troubleshot Windows, macOS, Linux, iOS, and Android devices and assisted with development of a Linux Diagnostic Tool.
- Used Jamf Pro and DeployStudio for macOS imaging and deployment; assisted with Ethernet wiring and access point troubleshooting using Cisco Prime.

IT Support

Good Faith Energy | *2018 - 2021*

- Built and deployed internal server infrastructure; diagnosed Windows/macOS and network issues involving TCP/IP, LDAP, DNS, and Active Directory.

Electrical Engineering Intern

Good Faith Energy | *May 2018 - Aug 2018*

- Assisted with solar PV system design, load calculations, system sizing, component selection, single-line diagrams, and technical documentation.

ADDITIONAL EXPERIENCE

Computing Associate / Geek Squad | Best Buy | Aug 2021 - Oct 2022
Provided Windows/macOS troubleshooting, technology consultation, and customer repair guidance.