

Faris Balubaid

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EDUCATION

University of Colorado Boulder

Boulder, CO

Bachelor of Science in Electrical & Computer Engineering, Minor in Engineering Management Aug. 2022 – May 2026

EXPERIENCE

Student Computer Support Technician

Summer 2024 - April 2026

Office of Information Technology at University of Colorado

Boulder, United States

- Provided technical support to clients, troubleshooting and repairing computer-related issues with proficiency and professionalism.
- Assisted clients with upgrading, installing, configuring, and maintaining a wide variety of software and hardware.
- Removed malware and viruses from infected computers and educated clients about internet safety and online security best practices.
- Advised clients on valuable software and hardware upgrade suggestions to keep their systems up-to-date.
- Documented technical issues and resolutions in support logs to improve future troubleshooting efficiency and ensure consistent client service.

PROJECTS

DemoSat RadTest | NASA COSGC Embedded Systems & Hardware Integration

August 2025 - April 2026

- Designed an Arduino shield PCB prototype for a High-Altitude Balloon payload project for Colorado Space Grant
- Contributed to system development by integrating recommended COTS sensors and validating shield functionality
- Assisted with software development to enable sensor data acquisition and flight ready operation of the shield
- Contributed to system testing, debugging, and hardware integration for the shield platform
- Presented technical design decisions, testing results, and radiation protection recommendations in final project reports and presentations

Dockerized Message Board Web Application *Node.js, PostgreSQL, & Docker*

July 2025

- Partnered with a team to build a full stack forum application supporting user registration, login, and posts
- Developed Express.js backend routes for authentication, board and post creation, and protected page access
- Integrated PostgreSQL with relational queries to manage users, discussion boards, posts, and comments
- Implemented secure login functionality using bcrypt password hashing and session-based authentication
- Containerized the application using Docker Compose with Node.js and PostgreSQL services.

Golden Arduino PCB Design Project | *Altium Designer & PCB Design*

April 2025

- Designed a custom Arduino compatible PCB with USB programming and Uno R3 shield support
- Optimized PCB layout for reduced signal noise using decoupling capacitors, shorter traces, and improved component placement
- Integrated test points, indicator LEDs, power regulation, and USB-to-UART communication circuitry
- Performed oscilloscope-based signal integrity and power noise analysis against a commercial Arduino board

TECHNICAL SKILLS

Networking: TCP/IP, Subnetting, VLANs, Inter-VLAN Routing, DHCP, DNS, NAT, ACLs, VPNs, Network Troubleshooting, Network Monitoring

Networking & Security Tools: Wireshark, Cisco Packet Tracer, Postman, Cisco AnyConnect, GlobalProtect

Programming Languages: Python, C, C++, JavaScript, SQL, Bash

Web & Backend Development: Node.js, Express.js, PostgreSQL, REST APIs, Handlebars, bcrypt

Embedded Systems & Hardware: ARM Cortex-M (STM32), Arduino, Raspberry Pi 4 Model B, ESP32, Microcontroller Programming, Interrupts, Timers, Embedded C

Hardware Interfaces / Protocols: I2C, SPI, UART, GPIO, PWM, ADC, CAN

Linux System Administration: Bash, Linux CLI, users/groups & permissions, systemd, SSH/SCP, networking config, log analysis