Mohammad Dahamshi

Senior Embedded & DevOps Software Engineer

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Professional Summary

Versatile and solution-driven Embedded Software and DevOps Engineer with experience in real-time systems, Linux environments, server administration, and customer support. Skilled in firmware development, image processing, CI/CD, scripting, and managing virtualized home labs. Adept at taking full ownership of tasks, troubleshooting at low levels, and supporting both development and production environments.

Experience

Isracard – Bne Brak

Customer Support Representative | 2025 - Present

- Delivered excellent phone support with an emphasis on clarity and patience for older clients.
- Resolved billing and technical issues while maintaining professionalism under pressure.

SolarEdge – Herzliya

Real-Time Embedded Software Engineer (IoT) | 2022–2023

- Built Win32-based simulator in C++ for ATMEL MCU to test embedded firmware on PC with GUI property sheets.

- Independently managed implementation, unit testing, CI pipelines, and Confluence documentation.

- Responsible for device firmware release and coordination with multiple teams.

- Integrated and worked with open-source libraries: mbedTLS, littleFS, OpenThread, Protocol Buffers, MQTT.

- Updated configurations for new EFR32 FG12 (Sub-GHz) variant.

  Tech Stack: C, C++, CMake, Simplicity Studio, Visual Studio, FreeRTOS, GitLab CI/CD, Linux, Windows

Plaqless – Yokneam

Embedded Software Engineer & System Administrator | 2017–2022

- Developed image processing algorithms (e.g., edge detection, convolution), matrix operations, and signal processing.

- Implemented drivers and firmware-level communication (UART, SPI, I2C, GPIO, USB) for TI DSP and BLE modules.

- Optimized algorithms using low-level bitwise operations and DSP-specific intrinsics.

- Built a logging system to expose DSP memory as a USB drive for debug logs.

- Recovered RAID0 failure by diagnosing, replacing faulty disk, and restoring data.

- Set up internal Git server, SMB file sharing, and backup scripts (cloud & local).

  Tech Stack: C, C++, Assembly, Code Composer, Visual Studio, Git, Bash, Linux, Windows, MATLAB

Freelance PC Technician – Remote & On-Site │ *2022–2024*

- Sold and installed refurbished PCs for community centers and schools

- Provided hardware repair and software installation for private clients

- Offered remote support using AnyDesk

- Built and hosted WordPress and WooCommerce websites for small businesses (e.g., taptip.shop, sarawebs.com)

- Combined technical and design skills to deliver user-friendly websites

- Maintained a personal home lab using Proxmox with virtual services including Nextcloud, Jellyfin, Gitea, and Pi-hole

- Experienced with tools and technologies: WordPress, WooCommerce, Proxmox, Linux, ZFS, LXC, Windows, AnyDesk

Tools: WordPress, WooCommerce, Anydesk, Proxmox, Linux, ZFS, LXC, Windows

Projects

University Chat Application – Front-End Development

- Created a full-stack real-time chat app using Node.js (backend) and vanilla JavaScript (frontend).

- Used Git for version control and focused on code readability, accessibility, and responsiveness.

- Received a lecturer recommendation for clarity and technical execution.

  Tech Stack: Node.js, Express.js, JavaScript, HTML, CSS, Git

Education

University of Haifa – B.Sc. in Computer Science │ 2014–2017

College of Management – Smart Home, Security Systems, Microsoft Office │ 2022

Apple Seeds – CCNA Networking Course

Self-Study (Udemy) – LFCS (Linux Foundation Certified System Administrator), CKA (Kubernetes)

Skills

- **Programming:** C, C++, C#, JavaScript, Python, Bash, MATLAB

- **Embedded:** FreeRTOS, UART, SPI, I2C, GPIO, RTOS, Interrupts

- **Tools & Platforms:** GitLab, Jira, Simplicity Studio, Visual Studio, Code Composer, Docker, Proxmox

- **DevOps/System Admin:** Linux (Ubuntu, Debian), ZFS, Git, CI/CD, SMB, Git servers, Scripting

- **Web/Remote:** WordPress, WooCommerce, Anydesk, HTML/CSS, Node.js, Express.js

- **Other:** Image Processing, OpenCV, JSON, MQTT, LittleFS, Bootloaders, IOT

Languages

- Arabic – Native

- Hebrew – Native

- English – Fluent