

Gal Levinsky

Engineering Leader | Embedded Systems Expert | Cybersecurity Strategist

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Engineering leader with 8+ years of experience in embedded systems and cybersecurity. Skilled at scaling and guiding cross-functional teams, with deep technical roots in C/C++ and a strong track record of delivering secure, mission-critical technologies.

Professional Experience

Director of Engineering

2022 - Present

Led six embedded development teams comprising 55 engineers, driving national cybersecurity initiatives in the communications and defense sector. Directed product development from architecture to delivery, focused on secure, low-level embedded systems.

- Oversaw the design and implementation of kernel modules, BSP layers, and embedded applications for custom hardware platforms
- Defined technical vision, set engineering standards, and led code and architecture reviews across teams
- Introduced DevOps pipelines and improved CI/CD processes to accelerate delivery and ensure quality
- Mentored engineering leads, managed cross-functional collaboration, and aligned technical execution with strategic goals

Head of Embedded Development Team & Product Manager

2018 - 2019

Leader of an embedded development team responsible for three cybersecurity projects in the communications sector. Collaborated closely with various clients, including defense organizations, to define requirements, plan workflows, manage development, and liaise with operations departments for seamless execution.

Professional Recruitment Manager for Development & Research Clusters

2017 - 2018

Leader of the recruitment process for the unit within the GAMMA Cybersecurity recruitment framework. Designed technical assessments, conducted interviews, and oversaw the unit's recruitment cycles and talent acquisition strategies.

Embedded Software Developer (C/C++)

2014 - 2017

Designed and developed cybersecurity systems in embedded environments, focusing on performance, reliability, and secure execution under tight operational constraints.

- Developed a custom **UEFI bootloader and application**, ensuring secure and controlled boot processes for specialized hardware.
- Implemented **kernel-level and user-space drivers** in **Linux** and **Windows** environments for low-level device communication and control.
- Contributed to full software lifecycle: from requirements gathering and architecture design to hands-on coding and debugging under real-time conditions.

Education

- **Bachelor of Science in Computer Science**, *Hebrew University of Jerusalem* (2019 - 2022). Dean's Honor List (2022)
- **Master of Business Administration (MBA)**, *Collier School of Management, Tel Aviv University* (2023-2024).
- **CIO Leadership Development Program (equivalent to half an M.Sc. degree)**, *National Defense University, Washington, D.C.* (2025)

Technologies & Tools

- Technical Foundation: C, C++, Embedded Systems, Kernel Development, UEFI, BSP, Secure Boot, Device Drivers (Linux & Windows), Cybersecurity Architecture
- Tools & Platforms: GDB, Valgrind, JTAG, Git, Make, CMake, Python, SwiftUI
- Engineering Leadership & Execution: Agile Project Management, DevOps Strategy, CI/CD Implementation, Technical Hiring, Team Scaling, Architecture Reviews, Cross-functional Coordination

Military Service

2014 - Present: Serving in the Matzov Unit of the IDF Cyber and Communications Directorate. Responsible for the management and development of embedded cybersecurity and information security systems.

Languages

Hebrew - Native | English - Highly Proficient