Avraham Eliyahu

Technical Project Manager | Integration & Delivery Expert | H/W & S/W Multidisciplinary Systems

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Executive Summary

Technical Project Manager & Operations Leader with 20+ years of experience managing complex, multidisciplinary product lifecycles (H/W, S/W, RF, IoT). Proven track record of transitioning products from R&D to **mass production (thousands of units annually)** and deployment with **Tier-1 global customers** (Comcast, Time Warner, Verizon, Medtronic, Elbit). Passionate about delivery excellence and building high-performing technical teams through deep understanding of development processes, product architecture, and market needs. Expert in bridging the gap between R&D, QA, Manufacturing, and Customer Support. Skilled in **Agile/Scrum** delivery, **RF/Wireless integration**, **IoT ecosystems with web management**, and building scalable engineering organizations.

Core Competencies

Project Management	Technical Integration	Leadership & Operations
• Full Product Lifecycle (PLM) • Agile/Scrum & Waterfall • Customer Delivery & Timelines • Risk & Quality Management	• H/W & S/W System Integration • RF & Wireless (BLE, Cellular, IoT) • IoT Devices & Web Management Systems • Production & Mfg. Scaling • IP Networks • QA & Validation Processes	• Team Building & Leadership (20-25 Engineers) • Recruiting, Mentoring & Development • Cross-functional Collaboration • Customer Engagement & Field Support • Technical Strategy & Market Alignment

Professional Experience

TandemG | *Head of Embedded Linux Group / Technical Delivery Lead*

Apr 2021 – May 2025 | *Lod, Israel Leading delivery for a high-end R&D services company specializing in IoT and embedded systems.*

- **Project Delivery Leadership:** Managed the technical delivery of **~15 diverse multidisciplinary projects**. Acted as the primary technical focal point for customers, ensuring alignment on requirements, timelines, and deliverables.
- **Agile Management:** Orchestrated **Agile/Scrum** workflows, collaborating closely with Product Managers, QA, and Integration teams to drive projects from requirements to successful deployment.
- **IoT & Web Integration:** Directed complex integration projects involving **IoT edge devices with web interfaces, cloud connectivity (AWS/Azure), mobile apps, cellular modems, BLE, and FOTA mechanisms**. Managed end-to-end **web management systems integration** for device control and monitoring.
- **Team Management:** Led a team of **20 engineers** (local and remote), managing resource allocation, professional mentorship, recruiting, and skill development.
- **System Validation:** Managed end-to-end system validation processes, including board bring-up, sensor integration, web interface testing, and final customer acceptance tests.

ATX Networks (Acquired Arcos) | *Head of R&D & Operations (Israel Site)*

Jan 2012 – Dec 2016 | *Petach-Tikva, Israel Managed the Israel site for a global provider of network infrastructure systems. Served Tier-1 customers including Comcast, Time Warner, Verizon.*

- **Full Lifecycle Ownership:** Led the end-to-end lifecycle for flagship RF & Video products (DAVIS, Versative) from concept through design, QA, to **mass manufacturing (thousands of units/year)** and deployment across North America.
- **Production Transition:** Managed the transition from R&D to production, including BOM selection, **PCB design reviews**, mechanical specs, manufacturing testing standards, and field deployment protocols.
- **Customer Engagement:** Led field integration and support for **major US clients (Comcast, Time Warner, Verizon)**, directly managing feature prioritization, on-site integration, and deployment timelines. Built strong customer relationships through technical excellence and responsive support.
- **RF & Standards Compliance:** Ensured product compliance with rigorous RF standards (**ITU J83, DOCSIS, DVB, PAL, NTSC**) utilizing **Network Analyzers, Signal Analyzers, and Oscilloscopes**. Managed certification processes for carrier-grade deployments.

- **Cross-Functional Leadership:** Managed a multidisciplinary team of 25, including **QA, Network Support, and Integration Engineers**. Built the team from the ground up, handling all recruiting, training, and professional development.
- **Operational Excellence:** Defined and implemented integration processes, uptime protocols, and operational infrastructure to ensure 24/7 reliability for customer environments. Managed field support teams and customer integration workflows.

Arcos Technologies | *CTO & Co-Founder*

Jan 2003 – Dec 2011 | Petach-Tikva, Israel Founded a startup developing high-performance RF transmission and video compression systems.

- **Business & Product Strategy:** Led product definition, business strategy, and investor relations, resulting in a successful acquisition by ATX Networks. Grew the company from concept to serving global Tier-1 providers.
- **Technical Architecture:** Directed the development of hardware-software integrated solutions, including FPGA design, video processing algorithms, and RF transmission systems for broadcast and cable networks.
- **Engineering Culture:** Established the company's R&D methodologies, recruitment processes, and engineering culture that prioritized technical excellence and delivery.
- **Customer Base:** Delivered solutions to **Comcast, Time Warner, and Verizon**, establishing deep relationships and technical credibility in the broadcast/cable industry.

Key Customers & Industries

Telecom & Broadcast: Comcast, Time Warner, Verizon,
Industrial: Elbit
Medical & IoT : Kandoo, Medtronic,Shahal
SoC/ASIC companies: SpeeData, GSI, AdaSky

Demonstrates ability to manage complex integrations across diverse industries and customer requirements.

Technical Skills & Tools

- **RF & Hardware:** Network Analyzers (Agilent, R&S), Signal Generators, Oscilloscopes, PCB Design Review, Schematics (Orcad).
- **IoT & Web Systems:** IoT edge device integration, web management systems, device control interfaces, cloud connectivity, MQTT, REST APIs, secure device provisioning.

- **Standards & Protocols:** ITU J83-ABC, DOCSIS, DVB, PAL, NTSC, Wireless (BLE, Cellular, WiFi), LTE/4G.
- **Software & OS:** Linux Embedded, RTOS, C/C++, Python, FOTA, Secure Boot, Device Drivers.
- **Management Tools:** Jira, Confluence, Agile/Scrum, MS Project.

Professional Passion & Vision

Driven by a passion for **technical delivery excellence** and **building world-class engineering teams**. Deep expertise in understanding development processes, product architecture, and market needs allows me to translate business requirements into scalable technical solutions. Committed to creating operational frameworks that enable teams to deliver complex, multidisciplinary products reliably and efficiently—from concept to customer deployment.

Hobbies & Continuous Learning

Passionate about **rapid AI-assisted development**. Experienced with modern development tools including **Cursor AI, Perplexity, Gemini, and OpenRouter** for building intelligent applications. Actively developing Python and web applications using **AI-driven development patterns** and **building AI agents** for automation and problem-solving. This hands-on engagement with cutting-edge technologies keeps my technical skills sharp and provides insights into emerging development methodologies.

Education

- **(B.Sc. not completed) Natural Sciences** | The Open University of Israel (2017 - 2020)
- **Programmer (Computers & Electronics)** | ORT Holon (1986 - 1990)

Languages

- **English** – Full Professional Proficiency
- **Hebrew** – Native/Bilingual Proficiency
- **Arabic** – Elementary