

Yaniv Yissachar

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PROFESSIONAL SUMMARY

Senior C++ Software Engineer with 10+ years of software development experience, including extensive work on real-time, multithreaded, and distributed systems for aerospace and flight simulation. Hands-on with C++14/17, Qt, HLA, and TCP/UDP-based subsystem communication. Chromium contributor and adjunct lecturer in Generative AI.

TECHNICAL SKILLS

- **Languages:** C++14/17/20, Python, TypeScript/JavaScript, SQL, Shell/Batch
- **Systems & Networking:** Multithreading, Concurrency, Synchronization, Process & Thread Management, TCP/UDP, HLA/DIS, Real-Time & Distributed Systems, Windows API
- **Frameworks & Libraries:** Qt (Widgets, Signals/Slots), STL, Node.js
- **Tools:** Git, CMake, Docker, Jenkins, CI/CD, Visual Studio, VS Code, gdb
- **Platforms:** Linux, Windows
- **Concepts:** Operating Systems, Software Architecture, Design Patterns, OOD, RAIL, Database Design
- **AI Tools:** Cursor, Claude Code, LLM APIs

PROFESSIONAL EXPERIENCE

Israel Aerospace Industries (IAI) — Flight Simulation Software Engineer 2023 – 2026

- Designed and implemented real-time, multithreaded simulation modules using C++14/17 and Qt for distributed flight simulation systems.
- Integrated HLA-based simulation environments and implemented TCP/UDP communication between simulation modules and external subsystems.
- Designed internal APIs and modular interfaces supporting the integration of heterogeneous simulation components.
- Collaborated with multidisciplinary engineering teams and industry partners to deliver interoperable, mission-critical training systems.

Sim.Space — C++ Software Engineer (Aerospace Simulations) 2021 – 2022

- Designed and implemented C++ simulation models for aerospace sensors and environmental conditions.
- Collaborated with engineers and domain experts to validate simulation behavior against real-world aerospace data.
- Automated build, deployment, and simulation-environment setup using Jenkins, Docker, and Shell/Batch scripting.

Arithmos — Independent Software Consultant & Technical Instructor 2016 – 2021

- Developed and deployed network-monitoring web applications for educational and commercial clients.
- Delivered advanced training in C++, C#, Python, multithreading, operating systems, and object-oriented design.
- Designed technical curricula and delivered custom software and engineering solutions.

Traffilog (acquired by Questar Auto Technologies) — Software Developer 2014 – 2016

- Developed JavaScript client applications and contributed to backend C/C++ modules for fleet-management and vehicle-telematics systems.
- Implemented new product features and participated in code reviews, debugging, and performance optimization.
- Collaborated with multidisciplinary teams to improve the reliability of fleet-monitoring platforms.

PROJECTS & OPEN SOURCE

Chromium Project — Open Source Contributor

2025

- Fixed an accessibility issue in Chromium DevTools using TypeScript; the patch was reviewed by Google and Microsoft engineers and merged into the Chromium main branch ([CL #6990990](#)).

Vyronium — Multi-Tenant Fitness Club SaaS

[vyronium.com](#)

- Designed and built a multi-tenant SaaS platform with role-based Admin, Instructor, and Member portals using TypeScript, Node.js, React, and PostgreSQL.
- Implemented branch-scoped access control and concurrency-safe class booking to prevent double bookings.

ADDITIONAL EXPERIENCE

Givat Washington College — Adjunct Lecturer, AI & Technological Tools

2025 – 2026

- Developed and delivered three intensive courses on Generative AI and AI-assisted development workflows.
- Instructed on the practical implementation of AI workflows to enhance professional productivity.

EDUCATION

Lev Academic Center (JCT) — B.Sc. in Electronic Engineering

2018

- Specialization: Sound & Image Processing.
- Final Project: Blind Speaker Clustering Using Spectral Features, in collaboration with the Israel Police.
- Technologies: MATLAB, DSP, GMM-UBM, STFT, PCA, MAP Estimation.

SPOKEN LANGUAGES

- **Hebrew:** Native **English:** Fluent