

# Etai Wigman

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**Software Engineer** with a B.Sc. in Electrical & Computer Engineering from Ben-Gurion University, with a strong foundation in software engineering fundamentals including data structures, object-oriented design, and performance-aware development. Hands-on experience building and debugging software systems in Python and C++, with an emphasis on code quality, correctness, and maintainability. Fast learner, proactive problem-solver, and team player.

## Education

**Ben-Gurion University of the Negev** — *B.Sc. Electrical & Computer Engineering*, GPA: 81 | 2019–2024

- Specializations: Algorithms, Machine Learning, Signal Processing.
- Relevant Coursework: Data Structures, Algorithm Design, Operating Systems, Systems Programming, Computer Networks, Parallel Processing, Machine Learning, Probability & Statistics, Optimization.

## Projects

### **GenAI Safety Analyst – Systems-Oriented Software Project**

- Implemented and operated a multi-component software system with complex execution flow, strict input validation, and deterministic decision logic layered on top of external services.
- Designed, built, and operated the system across the full development lifecycle, including system design, implementation, testing, deployment, and runtime debugging.
- Deployed and ran the system in a containerized cloud environment (Docker), encountering real-world constraints such as memory limits and startup overhead, and adapting configuration to ensure stable execution.

### **Parkinson's Disease Detection – Algorithmic Signal Analysis**

- Built a modular time-series analysis pipeline combining signal processing, feature extraction, and classification.
- Focused attention on runtime efficiency, numerical stability, and controlled data flow across pipeline stages.
- Modularized, documented, and tested components to support debugging, reproducibility, and maintainability.

### **Snowboard Visual Simulator – Performance-Sensitive Real-Time System**

- Developed real-time image-processing modules in Python and OpenCV as part of a team project.
- Debugged latency and stability issues in a live processing pipeline under noisy and unstable input conditions.
- Profiled execution flow and iteratively adjusted code to improve responsiveness and overall system stability.

## Work Experience

**KLA (formerly Orbotech)** — *IT Support & Systems Upgrade* | 2018–2019

- Assisted in modernizing computing infrastructure, coordinating upgrades across departments.
- Diagnosed and resolved system compatibility issues, improving reliability and productivity.
- Collaborated with cross-functional teams, gaining experience in troubleshooting and optimization.

## Military Service

**IDF – Communication Corps** — *Computer Network Administrator* | 2014–2017

- Managed and maintained over 500 computers and associated networks.
- Trained and guided team members, improving operational readiness.
- Awarded Base Commander's Excellence Award for outstanding service.

## Technical Skills

**Programming & Software Design:** C++, Python, Object-Oriented Programming & Design, Git, GitHub, Docker

**Domains:** Software Engineering, Data Structures & Algorithms, Systems-Oriented Software, Real-Time Systems

**Soft Skills:** Analytical Thinking, Debugging & Problem Solving, Fast Learning, Team Collaboration, Communication

## Languages

Hebrew – Native | English – Full Professional Proficiency