

# DAVID RABKIN

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## WORK EXPERIENCE

Red Hat,  
Raanana  
2021–current

### Principal Software Engineer

Supported Red Hat partners in deploying and certifying Telco workloads on the Kubernetes-based OpenShift Container Platform.

- Developed a test suite (Go, kind, Podman) to validate compliance with best practices.
- Implemented a Precision Time Protocol event mechanism (Go, K8s) aligned with O-RAN API standards.

Essence  
SigmaDots,  
Herzliya Pituach  
2019–2021

### Senior Software Engineer

Developed products for IoT security combining embedded technologies, cybersecurity, and distributed algorithms.

- Designed and implemented peer-to-peer distributed messaging protocol based on Distribute Hash Table with authentication and encryption (C, Go, MQTT, CMake, Docker, Rancher).
- Developed dynamic firewall configuration and Endpoint Detection and Response solution (libuv, nanopb).

Alarum Safe-T,  
Herzliya Pituach  
2017–2019

### Senior Software Engineer

Developed Software Defined Access (SDA) security product.

- Build a Layer 7 service with deep packet inspection and support for NTLM, Kerberos, and multifactor authentication (C#, GNU/Linux, Mono, Redis).
- Managed integration of SDA with SecureAuth IdP (C, krb5, Ruby).

HP Polycom,  
Petah Tikva  
2009–2016

### Senior Software Engineer

Developed infrastructure and management layers for Polycom's multipoint video conferencing servers.

- Led product certification for the US Department of Defense's Joint Interoperability Test Command (JITC). Analyzed JITC requirements, performed testing, resolved issues, and addressed vulnerabilities in Apache HTTP Server, Net-SNMP, OpenLDAP, OpenSSH, and OpenSSL.
- Designed and implemented certificate management system (C++, CA, CRL, HTTPS, OCSP, PKI).
- Developed Polycom's private MIB backend with secure SNMPv3 support, integrating a real-time data database (C, C++, mib2c, Net-SNMP).
- Constructed a custom embedded GNU/Linux distribution (Make, PTXdist).

AspenTech  
Paradigm,  
Herzliya Pituach  
2002–2008

### Software Engineer

Developed geoscience tools for visualizing, mapping, and interpreting multidisciplinary data.

- Implemented a wavelet compression algorithm for visualization large-scale maps (C++, Fortran).
- Developed a data browsing application with a catalog index (AIX, CORBA, IRIX, GNU/Linux, Solaris).

## TECHNICAL SKILLS

Languages: C, C++, Go, Ruby, Unix shell  
OSes: GNU/Linux, Unix  
Protocols: DHT, HTTPS, JSON, MQTT, PTP, SNMP, TCP/IP, TLS, YAML

## EDUCATION

Tel-Ran, Rehovot Intensive 1,100 hours Object Oriented Technology course.

Moscow Aviation Institute, Russia B.Sc. & M.Sc. in Measuring and Control Computer Systems, specialization in Computer Science.