

Professional Experience

2018 – | **Huawei**

Software Engineer

- Designed and implemented a distributed, crash consistent cloud replication data-path system and protocol
- Written in C++11 on Linux
- Developed management and control utilities in Python
- Sole developer of 95% of the data path code

2017 – 2018 | **Excelero**

Core team leader

- Linux kernel development
- Team was responsible for IO path of a high performance distributed NVMe Infiniband/ROCE client/server system

2010 – 2016 | **Dell**

2014 – 2016 Distributed File dedup and optimization Team Leader

- Enhanced dedup engine to work in a clustered environment
- Designed and implemented new distributed functionality
- C++98 code base

2012 – 2014 NFS Team Leader

- Relocated to the US and recruited a development team
- Led implementation of a distributed NFSv4.1 server
- Support for escalated customer cases

2010 – 2012 Software Engineer

- Led Dell's FluidFS NFS server development effort
- Implementation of a distributed NFSv4.0/4.1 server
- Implementation of RPCSECSS adding security to NFS protocols

2009 – 2010 | **SimpliVity**

Company developed a storage system (The company closed their office in Israel)

- Virtualization team leader and architect
- Working on the definition and feasibility analysis of the system architecture (direct assigned devices, SR-IOV devices, Multi Root PCIe architecture)

2005 – 2009 | **ScaleMP**

Company makes a distributed x86 hypervisor that aggregates the resources of several servers into a single server image

2008 - 2009 R&D Manager

Supervision of the R&D teams:

- Technical focal point
- Keeping up with R&D schedules

- Ensuring quality of development and coordination with QA

2006 - 2009 Team Leader

Leading the core technology team that included:

- Maintenance of x86 emulator
- Troubleshooting numerous bugs resulting from different Linux kernels & environments
- Added support for XEN virtualization
- Implemented support for nested VT-x instructions

2005 - 2006 Software Developer

- Implemented new generation Infiniband driver inside VMM
- Implemented Infiniband interconnect topology and connection layer
- Worked with x86 System boot, BIOS functionality, Linux kernel startup, CPU exceptions, Local APIC / IOAPIC / MSI, VT-x extensions

2003 – 2005 | **Voltaire**

Company makes high speed Infiniband Switches

Software developer

- Developed & maintained Linux kernel drivers that control Infiniband adapters

2000 – 2003 | **Exanet**

Company makes a distributed file server

Software Developer

- Developed a proxy ARP service
- Developed an NFS protocol server
- Worked on core of distributed file system
- Led performance optimization phase of file server
- Added support for internationalization in file server

1997 – 2000 | **Scitex Corporation** – Input division

1997 – 1998 Software Developer

1998 – 2000 Team Leader

- Developed C++ control software for a high-end flatbed scanner using Mac OS9
- Work included integration of various domains used in the scanner (mechanics, optics, embedded electronics etc.)

1996 – 1997 | **Gaya Software**

Junior Developer – Developed C/C++ applications in Windows & Unix environments

1989 – 1990 | **Freelancer** (during high school)

- Developed new features for multimedia display platform
- Developed in MC68000 assembler on Amiga computer

Education

1993 - 1996 | **Ben Gurion University Israel**

B.Sc in Computer Science and Math