Nir Ben-Dvora   CV

Job Title: R&D Architect and Team Manager
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Architect and R&D manager position
References: CV (PDF), M.Sc. Diploma, B.Sc. Diploma, IDF Excellent Officer, M.Sc. Master Work

S u m m a r y

I have been working as an architect and a manager for a variety of products on **networking, security, media, application recognition, telemetry and aircraft electronic warefare**. Over the last few years I have been working on the Cisco AVC and Intelligent WAN solutions which involve real-time processing as well as cloud, big-data, machine-learning and virtualization. Inventor of a dozen of patents and a co-author of **IETF RFC-6759** and **Intellignet WAN book**.

I'm holding a Master of Science degree in Electrical Engineering and Business Management from Tel-Aviv University. I'm a fast learner and always like to learn and experience with new technologies. My strength is the ability to see the big picture, break it down into detailed individual components in different domains, build an efficient and practical architecture, promote it through the organization, and technically lead the development teams until it becomes a product.

E x p e r i e n c e

2011-Current   **Architect, Cisco AVC and IWAN Solutions**

Technically leading the architecture of Cisco's Application Visibility and Control (AVC) and Intelligent WAN (IWAN) solutions. The solution is based on technologies such as Deep Packet Inspection (DPI), NetFlow/IPFIX reporting, Quality of Service (QoS), Software Defined Networks (SDN) and Data Analytics.
Working in collaboration with cross functional teams in the US, Canada, India, China and Europe as well as other leading companies.

Recent projects:

- Define and develop the Next-Gen AVC architecure which include controller/SDN functions, NFV virtualization with an End to End network visibility and control
- Development of functions on a Big-Data system based on Apache Flink/Kafka/Cassandra. Research of machine learning algorithms for network learning.
- Development of an AVC virtualized function (VNF) used with service chaining from Cisco routers
- Co-Author of the **IWAN book**

2004-2011   **Architect, Cisco Services Architecture Team**

- System architect for a generic service software and hardware infrastructure. The infrastructure is targeted for different services such as SBC, NAT/Firewall, DPI, etc. This infrastructure includes routing, communication between elements, high-availability, performance optimizations, etc.
- System architect of a firewall product for Cisco 12000 router (GSR). A system with multiple CPU's and NPU environment. The development include service infrastructure such as routing additions, traffic diversions, control and data-path aspects.
- Participated in the architecture of Session Boarder Controller (SBC) products running on multiple Cisco platforms.

2000-2004	**Team Manager – Cisco**
	SW Team manager of 5 people team developing a Spatial Reuse Protocol (SRP/802.17) line cards for Cisco core routers. Inventor of the SRP-SRR protocol algorithm for a recovery from multiple SRP ring failures.

1999-2000	**Senior SW Engineer - PentaCom**
	SW development of a high bandwidth SRP concentrator (company acquired by Cisco). Inventor of patents in this area.

1995-1999	**Team Manager - IAF SW Group (OFEK/MAMDAS)**
	Developed an F-16 electronic warfare software.
	Granted with an **excellent officer award** and the project was submitted to the**Air-Force General Award**

1992-1995	**Team Manager and Electrical Engineer - IAF Flight Test Center**
	Developed flight tests systems and telemetry

1991-1992	**SW Engineer - Scanvec**
	Part time job as a software engineer (C++) developing graphic and plotting software

Education & Qualifications

Self and On-Job Study	Cloud, Big Data and Analytic Systems, Machine Learning, Visualization, Networking, Computer Vision, Image & Signal processing, Matlab, Web programming, WebGL, Biology and more… I always learn new technologies. Some examples are on my **personal site**.

2000-2005	**M.Sc. in Electrical Engineering and Business Management**
	Tel-Aviv University, Israel,**Grade 90**
	Master: Locating the position of mobile phone emergency calls using estimation by a QR adjusted Kalman filter from a rescue vehicle

1988-1992	**B.Sc. in Electrical Engineering – In Excellency**
	Tel-Aviv University, Israel,**Grade 89**
	Focus: Signal processing, Communications, Computers
	Final project: MPEG encoding simulation

1984-1988	High School – Handesaim – Ramat-Aviv, Israel

Other

Strength	*Fast learner, understand the big picture and how to break it down into various components*
	Ability to work as a part of a team with different cultures and time zones
	Management and Leadership experience
Languages	*Hebrew, English (Fluent)*
Family Status	*Married + 3*
Military Rank	*Major (Res.)*
Standardization	*IEEE 802.17, IETF RFC-6759 Co-Author - Export of Application Information in IPFIX*
Hobbies	*Martial Arts, 4x4 Driving, Guitar, Ski*