

RAHAV DOR

Executive Manager / Chief Technology Officer / Head of R&D

PROFILE

Inventor, full-stack technologist, and charismatic leader. Built successful startups, revitalized and managed high-tech organizations, and overhauled information technology departments so they became vehicles of growth and partners to the business. Up to date computer science and computer engineering education at the Ph.D. level. Current research: Internet of Things, Cloud and Mobile app distribution.

HIGHLIGHTS

- Experienced C-level executive.
- Launched four startups: Embedded hardware development, Distributed enterprise software, Services, and Mobile music.
- Operated in diverse industries: Cyber security, e-Commerce, ERP, Communication, Agriculture, Health care, Point of Sale.
- Consulted to Express Scripts (2011), Avantel Mexico (2000), Telecom Italia (1999), Telstra Australia (1998), and UN Israel (1995).
- Invented numerous products and led them through complete life cycles – Technical and Business.
- Excellent command of modern programming languages and technologies.

Global Velocity

VP, New product development

2012 – Present

Spearheading systems and architectural changes that modernize the company offering and enable its entrant into cloud markets. Providing innovation and leadership for cyber security product design, development, and one-, three-, and five-year roadmaps. Our network security products target enterprise, cloud, and federal markets.

Technologies: Scala, AKKA for distributed computing, Spray as REST layer, Play web framework, CouchDB. Systems are deployed on Amazon EC2, Rackspace, and SoftLayer clouds. Red Hat Linux is the predominant OS.

- Delivering 97% of releases on time and budget
- All feature requests required to support a new engagement are delivered within less than 2 weeks
- New module requests are delivered within 60 days on average (standard deviation 10 days)
- Saved 1.4 million dollar (nearly 50%) of the startup development budget

iDoor Music

Chief Technology Officer

2007 – 2010

Built this company to capitalize on my audio matching patent application. Led the company research & development team. Developed apps for mobile phones, handheld consumer electronics gadget, and web portals for advertising partners. Attracted nearly 1M\$ of angel investors capital and successfully finished the product development.

Technologies: Java and Python on the backend, Hibernate to interact with persistence data, Django as the web framework, Solr for search, Symbian C++ for development on phones, and PostgreSQL. Hadoop for map-reduce. C for embedded programming.

- Successfully finished software development with scarce resources
- Developed a consumer electronics gadget based on the MSP-430

Corporate Express – Promotional Marketing

VP and Chief Information Officer

2001 – 2007

Following a strategic acquisition by Corporate Express joined the new executive management team. Charter was to turn a financially struggling company into a profitable organization. Under the vision of the president we turned the company into a healthy, cash-generating corporation within two years. CEPM became the promo market leader in North America, leading in sustainable quality, organic growth, profit, and other economic measures. Inherited over-staffed IT department that used outdated technologies, was a growth barrier, had no repeatable processes, and used vacuous quality scorecards. Long and costly development cycles were hard to justify financially. Developed a one-, three-, and five-year technology transformation plan that was executed flawlessly. Energized the department that changed from a cost-center into a margin-generating business unit; from an isolated, non-communicating department into one that became an effective partner and enabler to the rest of the organization. IT helped win prospects and enabled productivity across the company.

Technologies: Integration with legacy VAX-VMS, Cobol. Designed and built a data center based on Microsoft technologies: .NET for web development, SOA, MS-SQL, Cisco for networking and VOIP. Cobol progressively migrated to Java.

- Technology, among other factors, grew sales by 20 to 40 percent, every year during tenure
- Maintained availability, scalability, quality-of-service in the data center – at world-class levels 24/7/365
- Delivered over 90% of projects on time & budget, to the users satisfaction
- Freight profitability increased 120% (and reduced clients complaints while doing so)
- Supply-chain handling capacity grew per person over 300%

- Electronic commerce grew from 11% of business to 82%
- Decreased IT staff by 35% and Call center personal 67%
- Decreased Total Cost of technology Ownership 20% (TCO)
- Key member of due diligence team when CEPM expanded globally
- Post acquisitions, managed IT globally. Enabled all regions to enjoy business and technology advantages core to the US operation

Amdocs Inc.

Director of Software Development

1996 – 2001

With a team of less than a dozen technology and business leaders, was instrumental in building Amdocs' North America software development center. Center matured from a concept to strategic division with over 300 employees. Responsible for software development for the largest telecommunication carriers in America and Canada; SBC, GTE, and Sprint as they started their transition into the cellular business. Invented Amdocs' first generic product (a machine learning Transaction Correction and Management System) and led a cultural change, generating new revenue from product-based engagements. Partnered with the sales organization and embarked on a business transformation, building on the product as a door opener. Consulted to corporations around the globe such as Avantel in Mexico, Rogers Cantel in Canada, Telstra in Australia, and Telecom Italia. Led development of large enterprise systems (typical number of users in the thousands), predominately CRM, Order management and client representative portals, and Billing.

Technologies: C, C++, and Oracle, integrated with legacy systems in diverse environments and technologies. The last two years represented a shift towards Java and JavaServer Faces (JSF).

- Invented a product that generated 10 million dollar of new sales in the first year
- Managed a development budget of 30 million dollar (about 70 developers)
- 100% of projects delivered on time, many led to organic growth and same account sales increase
- Executive responsibility over recruiting and training of the whole division

EDUCATION

- Passed the Qualification exam and Portfolio review. Currently doctoral candidate in Computer Engineering.
- Masters of science in Computer Science. Washington University in St. Louis 2014.
- Masters of science in Computer Engineering. Washington University in St. Louis 2013.

Diverse graduate work. Research in high performance (FPGA based) computational biology, light polarization sensing, wireless health, wireless sensor networks, smart home, and most recently the Internet of Things (IoT). Working on IoT architecture that will enable such large scale Internet to emerge, related Big Data questions such as data ownership, fusion and aggregation, and expressive apps composition. A large body of work using Java, Objective-C on iOS, Python, PHP, MATLAB, C, and C++, and nesC on TinyOS.

Teaching segments in WUSTL classes

- Embedded Computing Systems (senior class)
- Wireless Sensors Networks (graduate class)

PUBLICATIONS and PATENTS

- Rahav Dor, *Middleware for the Internet of Things (IoT)*. Book chapter for a Cyber Physical Systems textbook, 2014
- Rahav Dor, et-al, *Reasoning on the Fast-Path CPU Branch Predictor*. Final paper, WU 2014
- US 2014 Mobile magnetic transactions. Provisional
- Rahav Dor, *Difficulties & Opportunities building resilient clinical monitoring systems with Wireless Sensor Networks*. MS Thesis, 2013
- Mo Sha, Rahav Dor, and Samsung Future Technologies, *Self-Adapting MAC Layer for Wireless Sensor Networks*, RTSS 2013
- Rahav Dor, *Performance evaluation of wireless MAC protocols*, Final paper, WU 2013
- Rahav Dor, et-al, *Experiences with an End-to-End Wireless Clinical Monitoring System*. Wireless Health, Oct. 2012
- Rahav Dor, et-al, *Using Queuing Theory to Model Streaming Applications*, Application Accelerators in High Performance Computing 2010
- Rahav Dor, *Against All Probabilities: A modeling paradigm for streaming applications that goes against common notions*, WU technical report 2010
- US 2010-0318529 – Recognition of Music and other original work of art without human knowledge. Now abandoned

PUBLIC SERVICE

Served as the Chairman of IBM Israel Original Equipment users organization for two years.