

# David Moshe Goldschlag, PhD

## Address

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## Qualifications

An experienced business and technology executive, with exceptional strategic, analytical, technical, and communication skills. Excels at collaboratively determining what is core, building the shared narrative that helps teams succeed, and executing to meet goals.

Strategic corporate activities, including corporate and product strategy, strategic sales, corporate development, OEM relationships, and IP prosecution and litigation.

Broad and deep technology expertise, including mobile, enterprise security, compliance and risk management, digital rights management, cryptography, security, storage, enterprise software, and SaaS, in a variety of applications including protection of sensitive information, management of devices, and asset tracking.

Brings to the organization a focus on a compelling strategy combined with effective performance, along with tremendous optimism, energy, creativity, and leadership.

Co-inventor of Onion Routing, now called Tor.

## Professional experience

2017 - New Edge Labs, Inc Silver Spring, MD  
**CEO**

- Strategy, Selling, Partnering, IP

New Edge offers enterprises secure Zero Trust access to private applications in the public cloud and the datacenter.

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2014 - Pulse Secure, LLC San Jose, CA  
**SVP Strategy & CTO**

- Corporate Strategy, Corporate Development, Strategic Architecture, IP
- Pulse Secure is a leader in secure remote access for the enterprise, enabling users to access any service from any device.
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2011 - 2014 MobileSpaces (Cellsec, Inc) Silver Spring, MD  
**CEO**

- Strategy, Partnering, Selling, IP

My focus at MobileSpaces is to build the company that enables BYOD for enterprise mobility.

MobileSpaces was acquired by Pulse Secure in October 2014.

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2010 - 2011 McAfee, Inc Santa Clara, CA  
**VP Mobile**

- Strategy
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- Strategic Selling
- Partners
- IP and Patents

My focus at McAfee is to build a unified consumer and enterprise mobile security offering that leverage McAfee's strengths into the new mobile world.

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2006 - 2010                      Trust Digital, Inc                      McLean, VA

**President & CTO**

- Marketing, Engineering, QA, and Support
- IP and Patents
- DOD / NSA Certifications
- Strategic Partners and Accounts

My focus at Trust Digital is to build the company that enables enterprises and government to make mobile devices a secure part of their corporate operations. This includes a variety of operational models, including devices for office applications, and devices for scanning and tracking inventory in warehouses and managing supply chains. Trust Digital was acquired by McAfee in April 2010.

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2004 - 2006                      Trusted Edge, Inc.                      McLean, VA

**SVP & CTO**

- Corporate Strategy: Markets, Products, Partners, and Acquisitions
- Product Roadmap
- OEMs & Partners: Symantec, OpenText, and IBM
- IP and Patents
- Strategic Accounts

My focus at Trusted Edge was to enable enterprises to improve compliance and reduce risk by having visibility and control over information created and used at the network's edge. Trusted Edge sold direct and through OEM channels. Trusted Edge was acquired by FileTek in 2007.

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2002 - 2004                      Consultant                      Silver Spring, MD

- Security & Cryptography
  - Digital Rights Management, Networked Storage, IT hosting, Embedded Systems
  - Strategy & Planning; Architecture & Design; Review & Due Diligence; Standards Work; IP Prosecution & Litigation
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2002 – 2003                      KeySec Software                      Silver Spring, MD

**Founder**

- Corporate Strategy and Business Model
- Intellectual property and product architecture
- Marketing to both OEM and end-customers
- Financing

KeySec Software develops and markets policy management and access-control solutions for networked storage. KeySec enables enterprises to better leverage their SAN infrastructure investment through software.

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2001 - 2003                      Cinea, Inc.                      Herndon, VA

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Board of Advisors

- Corporate Strategy and Business Model
- Intellectual Property, technology, and security architecture
- Marketing to both studio and technology partners
- Financing

Cinea develops and markets digital content protection technologies for cinema. Cinea is enabling the movie industry's transition to digital distribution and projection.

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1999 - 2001                      USinternetworking, Inc.                      Annapolis, MD  
**CTO**

- Strategy: Corporate direction and roadmap
  - Architecture: The context within which USi's infrastructure, products, services, and processes operate
  - Operational: Responsible for the productization, design, engineering, deployment, and support of USi's communication services, security and disaster recovery products, and management and monitoring infrastructure
  - Quality: Vulnerabilities, metrics, operational trends, design reviews
  - Communication: Positioning the company for clients, industry, and financial analysts
- My focus at USi was threefold: inverting the Application Service Provider (ASP) operational concept from a collection of many client data centers under one roof to a single data center supporting many clients; introducing provisioning as a key competency of ASPs, in addition to the existing competencies of application management and support; and building the next generation telco from the synergy of bandwidth, storage, and computation.
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1997 - 1999                      Divx                      Herndon, VA  
**Manager, Security Systems**

- Lead design, development, and production of Divx's second generation conditional access infrastructure.
  - Active in industry working groups on conditional access for high-definition television, copy protection for broadcast and cable TV, and secure digital music.
- My focus at Divx was to develop an economically sound architecture for securing digital entertainment content. We designed a system that made it unprofitable for a pirate to leverage Divx's distribution channels, media, and customer devices to compete with Divx's value proposition to movie consumers and studios.
- Divx leveraged a system for labeling DVDs with a unique identifier, a DVD player that could read the identifier, and a service that tracks plays of the DVD and bill according to the pricing schedule.
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1993 - 1997                      Naval Research Laboratory                      Washington, D.C.  
**Computer Scientist**

- Developed enabling technologies for e-commerce analogs of standard business models and new types of transactions, with increased security and privacy.
  - Designed "Onion Routing" (now called Tor), a system for anonymous communication over the Internet. The anonymous connections protect identity and location, in addition to transmitted data.
  - Developed security architectures that minimize trusted components.
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- Research in security and privacy.

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1991 - 1993                      National Security Agency                      Fort Meade, Maryland  
**Computer Scientist**

- Responsible for introducing formal methods to Agency developments.

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1987 - 1991                      Computational Logic, Inc.                      Austin, Texas  
**Computing Research Scientist**

- Research in formal analysis of concurrent systems.

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1986 - 1987                      ICSCA, University of Texas                      Austin, Texas  
**Research Assistant**

- Research in automated theorem proving.

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1984 - 1985                      Software Services Corporation                      Detroit, Michigan  
Ford Motor Company

**Programmer**

- Developed and maintained systems for analyzing and reporting vehicle test results.

#### Awards received

**Alan S. Berman Award** at the Naval Research Laboratory, 1999.

**Outstanding Paper Award** at the 11<sup>th</sup> Annual Computer Security Applications Conference, December 1995.

**MCD Fellowship** at the University of Texas at Austin, 9/85-5/86.

**Merit Scholar** at Wayne State University, Detroit, Michigan, 9/82-4/85.

#### Education

1985 - 1992                      University of Texas at Austin                      Austin, Texas  
**Ph.D.** Computer Science

- **Dissertation:** Mechanically Verifying Concurrent Programs

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1982 - 1985                      Wayne State University                      Detroit, Michigan  
**B.S.** in Computer Science with a second major in Mathematics

#### Board of Advisors

**ClassifEye**, 2007- 2008

**Zenoss**, 2006 - 2007

**Trust Digital**, 2005 - 2006

**Cinea**, 2001-2003

**MyWebOS.com, 2000-2002**

**Patents**

Method for Authentication and Assuring Compliance of Devices Accessing External Services, US9,643,902 B2, 5/9/2017 (with E. Dahl)

Automated Multi-level Federation and Enforcement of Information Management Policies in a Device Network, US9,294,508 B2, 3/22/2016 (with K Ginter, Y Weiss, M Bartman)

Automated Multi-level Federation and Enforcement of Information Management Policies in a Device Network, US9,171,172 B2, 10/27/2015 (with K Ginter, Y Weiss, M Bartman)

System and Method for Controlling Mobile Device Access to a Network, US8,750,108, 6/10/2014 (with N. Laudermilch, W. Supernor, R. Boroday)

Mobile Risk Assessment, US8,677,497, 3/18/2014 (with P. Ganapathi Basavapatna, S. Kumar Gaddala, and S. Schrecker)

System, method, and device for mediating connections between policy source servers, corporate repositories, and mobile devices, US8,565,726 B2, 10/22/2013, (with K. Sapp and D. Walker)

System, method, and device for mediating connections between policy source servers, corporate repositories, and mobile devices, US8,528,042 B2, 9/3/2013, (with K. Sapp and D. Walker).

Local Content Security System, US7,277,544 B1, 10/2/2007, (with R. Eye, T. Siner, J. Segal, R. Schumann).

Digital Content Distribution System and Method, US7,162,642 B2, 1/9/2007, (with R. Schumann, R. Whittemore, D. Kravitz, S. Iu, G. Mercier, M. Bergeron, J. Ehrhardt, and R. Vitkus).

Hierarchical Key Management, US6,975,728 B1, 12/13/2005, (with R. Eye and D. Kravitz).

Manufacturing Trusted Devices, US6,957,344, 10/18/2005, (with D. Kravitz).

Key Management Encoding and Decoding, US6,907,127, 6/14/2005, (with D. Kravitz).

Conditional Access via Secure Logging with Simplified Key Management, US6,738,905 (with D. Kravitz).

Onion Routing Network for Securely Moving Data through Communication Networks, US6,266,704, 7/24/2001 (with M. Reed and P. Syverson).

System and Method for Electronic Transactions, US6,108,644, 8/22/2000 (with S. Stubblebine and P. Syverson).

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