MOSHE ROZENBLIT

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INFORMATION ASSURANCE

- **Network and IT security**
- **Network operations and management.**
- **Outstanding analytical, problem solving and leadership skills.**

Expertise

Security	Networks & Systems	Management
• Formulating comprehensive, cost-effective network and IT security architecture for large corporations	• Network Migration and Conversion Planning	• Close cooperation with multiple business units (marketing, IT, services, operations)
• Developing security solutions for complex environments	• System and Applications Architecture	• Leading large international teams
• Long/short term security strategic planning and execution	• System Engineering and Integration	• Delivering top-rated customer service
• Security policy and procedure development and redesign	• System prototyping.	• Drafting RFI / RFP and evaluation of responses.
• Auditing IT threats and risks	• Process and Organizational Re Engineering	• Vendor selection
• IT Security training	• Large-scale technology assessment and forecast.	• Technology, strategy, process assessment

Defining Career Achievements

- **Led a team in charge of security engineering and accreditation of a large, distributed military system.** Developed, implemented and managed policies, mitigations, contingency plan, security operations and maintained overall security responding to emerging threats, evolving regulations and customer needs.
- **Laid the foundations of security for telecommunications network management.** Led an international effort, over several years, for securing interfaces between hundreds of management systems and tens of thousands of network elements from numerous suppliers, supporting hundreds of applications over dozens of data communications and system management protocols, and managing all security-related information. The resulting national and international standards include complete implementation details to insure interoperability between independent implementations. Wrote a book, at the request of the IEEE Press, to present the results.
- **Designed a new optical cross connect system.** Played a key role in defining the requirements for a new cross connect system and associated management system, designed the switch fabric.

- **Formulated Open Network Architecture.** Led national effort to define a network architecture that supports competitive telecom service providers. The architecture defines the interfaces among multiple local and long distance carriers and provides for local number portability.
- **Developed network operations plan.** Developed and implemented algorithms for generating and evaluating network operations plans for large telecoms. Provided algorithms for optimum deployment schedule of network operations support systems with mutual synergies and overlaps.

Employment Positions

2/2001-present: Business Development Director, Brazil Ahead, New York, NY
Developed business plans and operations automation.

1/2005-2/2011: Lead Security Analyst, L3 Communications (now Engility), Shrewsbury, NJ
Achieved security certification and accreditation for a complex, distributed military system. Assessed the risks and devised cost-effective solutions subject to Department of Defense directives.

8/2000 – 10/2002: **Principal System Engineer, TeraBurst Networks, Sunnyvale, CA**
Developed security features for a new **optical cross connect system**, evaluating vendor products, interfacing with vendors, testing, responding to RFPs. Developed solutions for prospective clients and executed lifecycle management.

Developed algorithms **for detecting system and network failures and for recovery from such failure**. Represented TeraBurst in security and optical interfaces discussions in standards organizations. Designed the Management Information Base (MIB) for managing a new Optical Cross Connect (OXC); designed the switch architecture for the next phase OXC.

6/1990- 8/2000, Security Consultant, Telcordia Technologies (ex Bellcore), Red Bank, NJ
Advisor to the National Security Agency on information warfare: Provided an extensive analysis of the security of enterprise-specific Public Key Infrastructure: potential threats as well as methods for prevention, key compromise detection, containment, and recovery.

Audited threats and risks to networks, formulating comprehensive **security architecture** to thwart such threats, and provided detailed specifications for implementing the security architecture. Developed network command and control (management) solutions. Integrated the proposed architecture with legacy infrastructure.

Lead large, multi-company, international teams in formulating numerous **security standards for telecommunications networks management** published in record time by the American National Standards Institute (ANSI) and the International Telecommunications Union (ITU).

Chaired the Security Management Sub Working Group for North American Telecom Standards (T1) from its inception until 2000. (Co)author and/or (co)editor of numerous network management security standards, recommendations, and implementation guidelines issued by the ANSI, and ITU as well as Bellcore Generic Requirements.

Advised numerous US and foreign companies on network and IT security and security management. Developed **information models for security management** using various management protocols (CMIP, SNMP, TL1 and CORBA).

1/1984-6/1990: Distinguished Member of Staff, Bellcore, Red Bank, NJ
Developed **network architectures** to leverage on emerging technologies and in support of new services, provided migration strategies from current environment, assisted clients (telecommunication companies) in implementing the architecture.

Designed the **software architecture** for an experimental optical network. Used neural networks for character recognition. Developed overall evolutionary network services architecture. Provided analysis and forecast of basic hardware and software technologies and their implications on telecommunications business for a 15-year horizon.

7/1975-12/1983 Distinguished Member of Technical Staff, Bell Laboratories, Holmdel, NJ

Performed **economic analysis** of engineering projects. Developed and prototyped **fault localization algorithms** for large networks. Defined data structures and associated algorithms for efficient representation of network data. Formulated a statistical switching protocol. Provided methodology for **network operations planning** and helped implement the methodology into Network Operation Centers (NOC). Designed algorithms for optimum introduction and deployment of operation systems with mutual synergies and overlaps. Taught and developed courses on telecommunications technologies, operations, and engineering and information security.

Developed correlation metric between marketing requirements and technical specifications of digital services.

Additional Achievements

Patents:
- Optimal architecture for cross point thyristor switches (with Ross Larue, pending).
- Communications network with hidden calling number capability, 1998.
- Multi-rate synchronous virtual circuit network for voice and data communications, 1988.

Awards:
- Distinguished Member of Technical Staff, Bell Laboratories, 1982.
- T1M1.5 Leadership Award, 1998.
- T1 Outstanding Editor Award, 1999.
- T1M1 Distinguished Service Award, 2000.

Publications:
- Book: Security for Telecommunications Network Management, IEEE Press, 2000.
- Numerous technical publications on network security, network optimization, data protocols.

Communications, Lectures:
- Taught several courses in telecommunications technology and information security at Bell Laboratories, Telcordia Technologies and L-3 Communications.
- Invited speaker at numerous universities (Columbia, Northwestern, Wisconsin, Maryland) and international conferences (Globecom, Network Operations and Management Symposium, Network Management Forum, ITU, European Telecommunications Standards Institute, others.) Outstanding verbal and written communication skills resulted in repeated invitations.

Degrees/Education:
- BS and MS, Physics, University of Brussels, Belgium
- PhD, Physics, Stevens Institute of Technology, NJ, USA
- MS Computer Science, Rutgers University, NJ, USA

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- MBA-equivalent classes (Finance, Marketing, Accounting, Microeconomics, …) at Bell Laboratories

Additional
- IEEE member.
- US citizen, excellent health.
- Security clearance at IT level I.
- Fluent in French and Hebrew, conversant in Dutch and German, learning Spanish and Portuguese.
- References available upon request. Publications available upon request.