Jesus Molina

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Education

University Of Maryland
Ph.D Electrical Engineering

University Of Maryland,
M.S. Electrical engineering

Universidad Politécnica de Cataluña
B.S. Electrical Engienering

Key Skills

Security Standardization

Network & System Security

Vulnerability Assessments

Authentication & Access Control

Cloud Computing

Regulatory Compliance

System Integration Planning

IoT Security and Integration

INFORMATION SECURITY CONSULTANT

Infosec specialist whose qualifications include a Ph.D. degree in EE; several patents published; detailed knowledge of security tools, technologies and best practices. Fifteen years of experience in the creation and deployment of standards and solutions to improve security practices.

Technology Summary

Security Technologies:	IDS/IPS; SSH; SSL; Digital Certificates; Encryption (AES, RSA, etc); IoT protocols; Trusted Computing; Cloud Computing
Systems:	Unix-Based Systems (Solaris, Linux, BSD); Windows (all)
Networking:	LANs, WANs, VPNs, Routers, Firewalls, TCP/IP, Industrial Protocols (KNX, ModBus), Wireless Protocols (802.11, Bluetooth)

Experience

JM CONSULTING	**Independent Security Consultant,** 20011-Present
FUJITSU LABORATORIES of AMERICA	**Security Researcher,** 2006-2011
TRUSTED COMPUTING GROUP	**Chair, Authentication,** 2007-2009
UNIVERSITY OF MARYLAND	**Research Assistant,** 2002-2006

Recent Project Highlights:

- **Standards:** Currently active at the Industrial Internet Consortium security workgroup; member of OASIS and DMTF workgroups; former board and chair at the TCG; former member of the Cloud Security Alliance workgroups

- **Patents**: Published +10 patents on diverse security subjects, including intrusion detection, trusted computing platforms and cloud computing

- **Security Assessment:** Assisted in hands-on security assessment of the cloud software OpenStack; Find vulnerabilities in home automation protocols for the hospitality industry (KNX, 802.11); Evaluated Smart Meters and Ad-Hoc networks

- **Instruction:** Published 20+ articles and journals; Presented at the most important security conferences, included IEEE Security, Usenix Security, BlackHat, Defcon; panelist on security at several events; consultant for TV, Radio and Newspapers; guest lecturer at the University of Maryland

- **Internet of Things:** Currently creating a Reference Architecture for the industrial internet; evaluated security on IoT protocols (DDS, KNX); designed RESTful interfaces for the Internet of Things; created a visual platform for discovery rogue radio frequency devices (Software Defined Radio)

- **Cloud computing:** Created a trusted vault to evaluate cloud computing Infrastructure; created secure Virtual Machine evaluation Platform; evaluated open source platforms (OpenStack, CloudStack)