

Jesus Molina

San Francisco, CA • Phone: (415) 685-3049 • contact@jesusmolina.com

Education

University Of Maryland

Ph.D Electrical Engineering

University Of Maryland,

M.S. Electrical engineering

Universidad Polit cnica de Catalu a

B.S. Electrical Engineering

Key Skills

IoT Security and Integration

Industrial systems Security and Integration

Security Standardization

Network & System Security

Vulnerability Assessments

Authentication & Access Control

Cloud Computing

Regulatory Compliance

System Integration Planning

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 and IIoT protocols; Trusted Computing; Cloud Computing

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:

- **Industrial Systems Security:** Security Lead at the Industrial Internet Consortium (IIC); security evaluation for industrial testbeds connected to cloud systems; editor of the IIC security Framework for industrial systems.
- **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:** Presented at the most important security conferences, included IEEE Security, Usenix Security, BlackHat, Defcon; panelist on security at several events; guest lecturer at the University of Maryland
- **Patents:** Published +10 patents on diverse security subjects, including intrusion detection, trusted computing platforms and cloud computing
- **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)
- **Standards:** Member of OASIS and DMTF workgroups; former board and chair at the TCG; former member of the Cloud Security Alliance workgroups

Able to Relocate & Travel Extensively • Available for Contract Assignments