Dr. Jesus **Molina**

Industrial cybersecurity experty with experience leading the protection of critical infrastructures.



Specialties

- IT & OT Cybersecurity
- · Critical Infrastructure
- · Standards & Regulations (IEC 62443, NIS2, NIST)
- · Business Development
- · Technological Innovation
- Rapid Prototyping

Impact in Numbers

20+ years of professional experience 100+ international presentations 3000+ academic citations **70+** technical publications 5 cybersecurity patents

Interests

- · Vibe coding · Sailing
- Entrepreneurship
- Gardening · Meditation

Languages

Spanish Native **English** Fluent Catalan Fluent



jesusmolinaauth



nomellames



molinajesus

ABOUT ME

- · Over 15 years as a leader in OT and IT cybersecurity on a global level
- Business developer of Unidirectional Gateways with proven success in the railway, energy, and airport sectors
- Expert in standards & regulations such as IEC 62443, NIS2, NIST, TS-50701. Board member and Chair at the Trusted Computing Group. Chair of the IIoT Consortium
- Author of the first vertical IEC 62443 cybersecurity course for railway systems (UPC)
- International speaker at events such as S4x25, RSA, ENISA Rail. Sikkerhetsfestivalen, Blackhat, and Defcon

Professional Profile

2017-2025

Director of Industrial Security

/waterfall

Waterfall Security Solutions - Global 9

- · Drove the rail vertical, achieving over €5 M in revenue
- · Forged strategic opportunities and strengthened relationships with key clients.
- Developed technical materials for critical sectors: rail, aviation, and energy.
- Served on international committees (UITP, EE-ISAC).

2011-2017

Consultant & Founder



JADEBRAIN INC. · San Francisco ♥

- Provided boutique consulting services to companies such as Fujitsu and Huawei.
- · Represented clients at the Industrial Internet Consortium (IIC).
- Led IoT/IIoT workshops for the RSA Conference.

2007-2011

Security Researcher



FUJITSU LABORATORIES OF AMERICA · San Francisco 💡

Designed prototypes and secured patents in hardware/software security

EDUCATION

Ph.D. in Electrical Engineering 2007

UNIVERSITY OF MARYLAND · Intrusion Detection im



2001 M.S. in Electrical Engineering

University of Maryland · Hardware Modules im



1999 **B.Sc.** in Telecommunications Engineering

UNIVERSITAT POLITÈCNICA DE CATALUNYA · Authentication im



SELECTED PUBLICATIONS & TALKS

S4x25 Conference The Case for Vertical Specific (Rail) OT Security Training Materials

Training on CLC TS 50701 **ERA-ENISA 2024** Cybertek 2024 NIST for OT Professionals

Replicating a 10-Year-Old OT Cyberattack Using Al Sikkerhetsfestivalen 2024

eBook and Webinar Cybersecurity in Power Generation - Applying 62443 Standards

Jesús María Molina Terriza Barcelona,