

WOJCIECH SIKORSKI

POWER ENGINEER



CONTACT

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TECHNICAL SKILLS

- ICS/OT Security (Purdue Model, MITRE ATT&CK)
- Wireshark, Suricata, Wazuh (basic SIEM)
- FEM, turbine diagnostics, operational data analysis
- Basics of IEC 62443
- Ubuntu, Windows Server, SCADA/HMI, Kali Linux

LANGUAGES

- English – Advanced
- Spanish – Basic

INTERESTS

- CTFs and ICS/OT labs
- Incident analysis
- Forensics and true crime
- Strategy games and logic puzzles
- Handicrafts
- Numismatics (coin collecting)



PROFILE

Engineer with experience in the heavy industry, seeking to develop a career in ICS/OT cybersecurity. I have in-depth knowledge of industrial environments and their specific threats, as well as a solid understanding of key aspects of operational security. I am characterized by analytical thinking and a fast learning ability. My goal is to protect control systems against cyberattacks, ensure their reliability, and progress towards the role of CISO.



PROFESSIONAL EXPERIENCE

Research & Technological Services Pro Novum - R&D Center From 2017 Power Equipment Specialist

- Preparing detailed technical assessments of power equipment condition.
- Performing structural calculations for critical infrastructure using FEM (Finite Element Method) software.
- Analyzing large sets of operational and performance data.

Research & Technological Services Pro Novum - R&D Center 2015 - 2017 Junior Power Equipment Specialist.

- Assisted in implementing monitoring and management systems for critical infrastructure.

PKN Orlen S.A. 08. 2024 - 09. 2025 Internship in the Maintenance Department

- Developed hands-on expertise in industrial control systems (ICS) and energy conversion processes.
- Conducted analysis and reporting of operational data for CHP units, detecting patterns linked to potential control system risks.



EDUCATION

Wrocław University of Science and Technology | Faculty of Geoengineering, Mining and Geology | M.Sc. Eng., Underground and Open-Pit Mining | 2014 – 2016

Instituto Superior Técnico, Lisbon | Faculty of Mechanical Engineering | Field of Study: Mechanics (Erasmus Scholarship) | 2014

AGH University of Science and Technology, Kraków | Faculty of Energy and Fuels | M.Sc. Eng., Power Engineering | 2009 – 2014



CERTIFICATIONS

Obtained:

- Certified Fundamentals in Cybersecurity - Fortinet
- Certified in Cybersecurity (CC) - ISC2
- Google Cybersecurity Professional Certificate - Google
- Cyber Threat Intelligence Analyst 101 - arcX
- Introduction to Cybersecurity - CISCO

In progress:

- ISO/IEC 27001 Lead Implementer
- Security + - CompTIA
- CISA - ISACA



PROJECTS

- **Hacktrick.pl** - blog on IT/OT cybersecurity (incident analyses, proprietary methodological frameworks).
- **OT/ICS Security Lab** - building a test environment (Proxmox, PLC simulator, Suricata, Wireshark).
- **Colonial Pipeline Incident Analysis** - case study using the MITRE ATT&CK framework (portfolio).
- **IT vs OT** - analytical paper presenting differences in security assurance in both domains.
- **ICS Risk Profiler + CIRA** - proprietary risk assessment methodology for critical infrastructure.
- **OT Honeypot** - in progress.



PUBLICATIONS

- **Author of 150+ industry articles (Energetyka, Nowoczesny Przemysł, Energetyka Ciepła i Zawodowa, others).**
- **Topics:** ICS/OT cybersecurity, energy efficiency, industrial equipment diagnostics, predictive maintenance, energy technologies.
- **Selected publications:**
 1. "Cybersecurity of Industrial Control Systems (ICS/OT) - Specific Threats and Protection Methods" - Nowoczesny Przemysł (2025)
 2. "Cyber Threats to Renewable Energy Infrastructure. A Study of Real Attacks" - Energetyka Ciepła i Zawodowa (2025)
 3. "The Role of Artificial Intelligence in Optimizing Energy Consumption in the Power Industry" - Nowoczesny Przemysł (2024)
 4. "Automation of Maintenance Processes in Renewable Energy" - Energetyka Ciepła i Zawodowa (2025)
 5. "Impact of Operating Conditions on the Service Life of Turbine Components" - Energetyka (2021)



TECHNICAL SKILLS

- **Cybersecurity / ICS-OT** - MITRE ATT&CK for ICS, PCAP analysis (Wireshark), Suricata, basic SIEM, network segmentation (Purdue Model).
- **Engineering** - FEM (structural calculations), operational analysis, failure root cause identification.
- **Standards & Frameworks** - ISO/IEC 27001, IEC 62443, NIS2 – basic implementation knowledge.
- **Systems** - Ubuntu, Windows Server, SCADA/HMI (basics), Kali Linux.
- **Tools** - Wireshark, Suricata, Nmap, Wazuh.
- **Virtualization** - Proxmox, VirtualBox, Docker, Cisco Packet Tracer.



SOFT SKILLS

- **Risk management in critical infrastructure** - making decisions based on threat analysis and business impact.
- **Crisis communication** - delivering clear information during incidents without escalating panic.
- **Interdisciplinary collaboration** - bridging the perspectives of engineers, IT, compliance, and executive management.
- **Strategic thinking** - planning long-term organizational resilience against cyber threats.
- **Mentoring and team development** - supporting junior specialists in developing their skills.
- **Critical thinking** - ability to objectively analyze problems, challenge assumptions, and make fact-based decisions.
- **Decision-making under pressure and uncertainty.**
- **Conflict resolution** - mediating between technical and business departments.



PROFESSIONAL MEMBERSHIPS

- **ISSA Poland** - Regular Member since 2025
- **LinkedIn** - Professional profile and blog