# Ángel

## Longueira-Romero

#### Education

- 2019–2022 PhD in Industrial Cybersecurity, Faculty of Engineering, Mondragon University, Metric-Based Cybersecurity Evaluation Methodology for Industrial Embedded Systems. Specialization in:
  - Cybersecurity Evaluation Standards.
  - Vulnerability analysis.
  - o Cybersecurity measurement.
- 2017–2019 Master's degree in Automation Engineering and Industrial Informatics, Gijón Polytechnic School of Engineering, University of Oviedo, Specialised in Optical Techniques for Industrial Inspection.

Other Activities:

- Class President.
- 2012–2017 **Bachelor's degree in Industrial Electronics and Automation Engineering**, *Gijón Polytechnic School of Engineering*, University of Oviedo, Specialised in Industrial Robotics. Other Activities:
  - MENTOR Programme. Providing help to new Erasmus students in the campus.
  - Member of the self-evaluation committee of the Industrial Electronics and Automation Engineering degree.
  - Tandem language exchange programme of the University of Oviedo.

#### Academic Dissertations

- 2019–2022 **Ph.D. Thesis**, *Mondragon University*, Arrasate, Metric-Based Cybersecurity Evaluation Methodology for Industrial Embedded Systems.
- 2018–2019 Master's Thesis, *IKERLAN*, Arrasate, Design and Implementation of a PKI Infrastucture with Automatic Reenrolment of Certificates for Industrial Embedded Systems.

  With Honors
  - 2017 **Undergraduate Thesis**, *Thermal machinery and engines team. Department of Energy*, Gijón, Design of a temperature regulation system for a Stirling engine heater. With Honors

#### Training

- 2018 **IEC 61131 Edu Net Certificate**, Automation technology in theory and practice according to IEC 61131.
- 2023 **TEEPwn Raelize Certificate**, Trusted Executions Environments based on TrustZone.
- 2024 **Cybersecurity in the Electric Sector CCI**, Design, Operation and Maintenance of cybersecurity .

#### Experience

2023-Present Industrial Cybersecurity Researcher, Tecnalia, Derio (Spain).

- 2022–2023 Industrial Cybersecurity Researcher, IKERLAN, Arrasate (Spain).
- 2019–2022 PhD Candidate, IKERLAN, Arrasate (Spain).
- 2018–2019 **Industrial Cybersecurity Intern**, *IKERLAN*, Arrasate (Spain), Worked at the Industrial Cybersecurity Team deploying a PKI with automatic reenrolment using SCEP, EST and OCSP for embedded devices with two HSMs.
- 2017–2018 **Amplification Equipment Repair Apprentice**, *Ortodoxo Amplification (Now: Bell Tone Vintage)*, Gijón, Worked with Marco Fernández designing, building and repairing vacuum tube and solid state musical equipment, and developing ad hoc tools.
- 2016–2017 **Mentoring and Tutoring**, Private lessons of industrial technology, mathematics, physics, chemistry, technical drawing and music to high school students.

#### Technical Skills

OSs Windows, GNU/Linux.

Programming C, C++, Python, assembly.

Databases PostgreSQL, MySQL.

Cloud AWS.

Software MatLab, R, Altium.

Hardware FPGAs, Microcontrollers, PCB design.

TEE ARM TrustZone, OPTEE, Intel SGX.

Robotics and ROS, UNITY, CODESYS, TIA Portal

Automation

Standards ISO 9001, ISO 27005, ISA/IEC 62443, Common Criteria, SAE J3061.

Methodologies NIST 800 Serie Reports, OWASP, OSSTMM, MAGERIT, STRIDE

Data Analysis Machine Learning, Computer vision, Data Processing, Data Visualisation.

Cybersecurity Cryptography, Public Key Infrastructure (PKI), Risk Analysis, Threat Modelling.

Protocols SCEP, EST, OCSP.

Other Microsoft Office, LATEX.

#### Languages

Spanish Native

English Fluent

Portuguese Intermediate Conversationally fluent

Basque Intermediate Conversationally fluent

SerboCroatian Intermediate Currently assisting to lessons

German Basic Basic words and phrases only

French Basic Words and phrases only

#### Transferable Skills

- Teamwork

- Self management
- Written and verbal communication
- Research and analytical skills
- Fast learner and proactive problem solving

#### Interests

- 3D design with Fusion 360 (Autodesk)
- Arduino projects
- Language learning
- Travelling

- 3D printing (Simplify3D and Cura)
- Raspberry projects
- CrossFit and Bike
- Music (Electric Bass and Oboe)

### Other Information

- Willing to travel

- Driving license