

Ángel Alfonso Longueira Romero

Education

- 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 mentoring Erasmus students.
○ Member of the self-evaluation committee of the Electrical Engineering degree.
○ 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

- 2018–2019 **Master's Thesis**, *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. 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 David García Menéndez. With Honors.

Training

- 2018 **IEC 61131 Edu Net Certificate**, *Automation technology in theory and practice according to IEC 61131*.

Experience

- 2019–Present **Industrial Cybersecurity Researcher (PhD Student)**, *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

Operating Systems	Windows, GNU/Linux
Programming Languages	C, C++, PYTHON, assembly language, JAVASCRIPT, VHDL
Databases	PostgreSQL, MySQL
Software	MatLab, R, Altium, DesignSpark, Proteus, PSIM, OpenCV
Hardware	Quartus FPGAs, PIC microcontrollers, Electromyography sensors, PCB design, power electronics
Robotics and Automation	ROS, UNITY, CODESYS, TIA Portal
Quality Engineering	ISO 9001, EFQM Model, Statistical Process Control
Data Analysis	Machine Learning, Computer vision, Data Processing, Data Visualisation
Security	Cryptography, Public Key Infrastructure (PKI)
Other software	LibreOffice, Microsoft Office, L ^A T _E X

Languages

Spanish	Native	
English	Fluent	
Portuguese	Intermediate	<i>Conversationally fluent</i>
German	Basic	<i>Basic words and phrases only</i>
French	Basic	<i>Basic words and phrases only</i>

Transferable Skills

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

Interests

- 3D design with Fusion 360 (Autodesk)
- 3D printing (Simplify3D and Cura)
- Arduino projects
- Raspberry projects
- Language learning
- CrossFit and Bike
- Travelling
- Music (Electric Bass and Oboe)

Other Information

- Willing to travel.
- Interested in a wide variety of topics.
- Driving license.