



# Ángel Soto Boullosa

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 Pontevedra, Spain

 +34 650 798 533 |  angelsotob@outlook.es

 LinkedIn: linkedin.com/in/angelsotob |  GitHub: github.com/angelsotob

 Website: angelsotb.github.io

## PROFESSIONAL SUMMARY

**Embedded software and electronics engineer** with proven experience in firmware development, embedded Linux (Yocto), PCB design, and communication protocols (CAN, LIN, UART, SNMP). Skilled in developing Windows desktop applications (C#), Python scripting, and automated testing tools for automotive and defense sectors. Adept at hardware-software integration, leading small engineering teams, and delivering projects from concept to deployment with measurable efficiency gains.

## WORK EXPERIENCE

### Software Development Engineer

*Inster Grupo Oesía | Mar 2024 – Present*

- Developing firmware and software solutions for military and defense projects, ensuring full compliance with strict client and regulatory requirements.
- Optimizing system performance on ARM Cortex-A53 multicore platforms running embedded Linux (Yocto) through efficient driver integration and software tuning.
- Enhancing product reliability by conducting thorough software validation on evaluation boards prior to deployment.
- Improving team knowledge sharing and maintenance efficiency by producing technical documentation with Markdown, Doxygen, and Confluence.
- Accelerating testing processes and reduce manual work by developing Shell and Python scripts for automation.

### Software Development Engineer

*Antolín | Aug 2022 – Feb 2024*

- Reduced RGB microcontroller testing time significantly by developing automated Windows desktop tools in C# and integrating Python libraries, all for automotive systems.
- Improved software validation efficiency by integrating protocol-specific communication modules (CAN, LIN, UART) into testing applications.
- Customized Python libraries for specific project requirements.
- Utilized Jira and Bitbucket for project management and collaboration.

### Electronic Engineer

*SETGA S.L.U., Pontevedra | May 2019 – Jul 2022*

- Advanced from trainee to Head of Electronics Department, leading 1 engineer and 3 lab technicians.
- Shortened PCB development cycles by streamlining design reviews, implementing component selection guidelines, and coordinating with embedded software teams.
- Increased product reliability through rigorous LED power supply validation and documentation improvements.
- Reduced commissioning and maintenance times by standardizing installation schematics and test procedures.

## Other experience

**Technical Assistant** at *Promovert Crop Services S.L. – Spain & Portugal* | May 2018 – Oct 2018

**Research Engineer** at *University of Vigo* | Dec 2017 – Jan 2018

**Research Engineer** at *University of Vigo* | Nov 2017

**Service Station Attendant** at *CEPSA* | Jul 2009 – Aug 2009

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## EDUCATION

**Bachelor's Degree in Industrial Engineering, Electronics and Automation – University of Vigo (2010–2017)**

Final Year Project: *Design, Implementation and Validation of an Electronic Circuit for Battery State-of-Charge Measurement in Mobile Robots* (9.3/10)

Designed and manufactured a PCB for state-of-charge monitoring using a Texas Instruments fuel gauge IC communicating via I<sup>2</sup>C to an Arduino. Integrated into an open source project (**UviSpace**) developed by the Department of Electronic Technology at the University of Vigo.

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## TECHNICAL SKILLS

Programming	Embedded Systems	PCB & CAD Tools	Version Control & Collaboration
<ul style="list-style-type: none"><li>- C</li><li>- Python</li><li>- VBA</li><li>- C#</li><li>- Java</li><li>- Visual Basic</li><li>- VHDL</li></ul>	<ul style="list-style-type: none"><li>- ARM Cortex-A53</li><li>- Embedded Linux (Yocto)</li><li>- SNMP</li><li>- Communication Protocols (CAN, LIN, UART, DALI, DMX)</li></ul>	<ul style="list-style-type: none"><li>- Altium Designer</li><li>- KiCad / OrCAD</li><li>- AutoCAD 2D / ZWCAD</li><li>- FreeCAD</li><li>- SolidWorks / CATIA V5</li></ul>	<ul style="list-style-type: none"><li>- Bitbucket</li><li>- Git</li><li>- Markdown</li><li>- Doxygen</li><li>- Jira</li><li>- Confluence</li></ul>

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## LANGUAGES

- **Spanish, Galician** – Native (Bilingual)
  - **English** – Upper-intermediate (B2)
  - **French** – Intermediate (B1)
  - **German** – Basic (A2)
  - **Portuguese** – Basic
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## ADDITIONAL INFORMATION

- **Driving licences:** B and A2 – Own car and motorcycle
- **Availability:** Open to short-term travel
- **Interests:** RTOS projects (ESP32), robotics (Arduino), 3D printing (custom designs), climbing and canyoning (certified Level I guide)