

Alaf do Nascimento Santos

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PERSONAL STATEMENT

Master student in electrical engineering with a background in telecommunications and automation, mainly in the area of the Internet of Things. Throughout my career I have received awards in maths, physics and recently a scholarship based on academic and technical excellence. I am currently seeking an end-of-study internship in embedded systems.

PROFESSIONAL EXPERIENCE

2023 - Network and Automation Intern.

Synchrotron SOLEIL, Saint-Aubin, France.

- Software tool parameterisation dedicated to centralised supervision of industrial PLCs.

2021 – 2022 - Embedded Systems and IoT Intern.

2Solve Engineering and Technology, Vitória, Brazil.

- Development of software for embedded systems, IoT Web Applications, and technical documentation.

2019 – 2021 - Scientific and Technological Undergraduate Researcher.

UFES Telecommunications Laboratory, Vitória, Brazil.

- Software and hardware design for visible light communication systems.

2019 – 2020 - Automation Intern.

Cassiano Antonio Moraes University Hospital, Vitória, Brazil.

- Establishment of electronics for a maintenance supervisory system and a data monitoring application, and technical documentation.

2019 - Scholar in educational programme.

Tutorial Teaching Program, Vitória, Brazil.

- Software training, such as LaTeX. Research about embedded systems. Production of scientific articles.

Practical experience acquired:

- Embedded systems based on Arduino, ESP8266, Raspberry Pi, and SAMD21;
- Programming languages: MatLab, Java, Javascript, Python and C++;
- Dev tools: Android Studio, AngularJS, InfluxDB, and MongoDB;
- IoT tools: Node-RED and Grafana.
- Real-time monitoring tool: Zabbix;

EDUCATION

2022 – 2024 - Master of Science in Engineering (Diplôme d'ingénieur).

Télécom Paris, Institut Polytechnique de Paris, Palaiseau, France. *Double degree programme.*

- M1: Embedded systems, mobile networks, and internet of things.
- M2: Embedded systems and information processing.

2017 – 2024 - Bachelor of Science in Electrical Engineering.

Federal University of Espírito Santo, Vitória, Brazil. *Double degree programme.*

- Control and automation systems, telecommunications, and computer science.
- Final Project: Multiplatform System For Data Reception Via Visible Light Communication Technology.

DIGITAL SKILLS

Microcontrollers | Raspberry Pi | SystemVerilog | VHDL | C/C++ | Python | Rust | OCaml | MATLAB | Java | Javascript | Node.js | Vue and Angular | MongoDB | InfluxDB | Git | Linux | LaTeX

LANGUAGE SKILLS

- Portuguese - Native Language.
- English - Telecom Paris C1, 2023. Cambridge Linguaskill B2 (178 out of 180), 2022.
- French - Telecom Paris C1, 2023. Test de Connaissance du Français B2 (488 out of 699), 2021.
- Spanish - Beginner.

❖ LinkedIn: <https://www.linkedin.com/in/alafsantos>

❖ Github: <https://github.com/alafSantos>