Alaf do Nascimento Santos

55 Boulevard Jourdan, 75014 Paris, France
Cell: +33 07 49 62 29 17
E-mail: alaf.nascimento@telecom-paris.fr

EDUCATION

2022 – 2024 - Master of Science in Engineering.
Télécom Paris, Paris, France.
- Embedded systems, mobile networks and internet of things.

2017 – 2022 - Bachelor of Electrical Engineering.
Federal University of Espírito Santo, Vitória, Brazil.
- Control and automation systems, telecommunications and computer science.

PROFESSIONAL EXPERIENCE

2021 – 2022 - Embedded Systems and IoT Intern.
2Solve Engenharia e Tecnologia, Vitória, Brazil.
- Development of software for embedded systems and IoT Web Applications. Preparation of technical documentation.
    - Embedded systems based on Raspberry Pi and SAMD21;
    - Programming languages: Javascript, Python and C++;
    - Web dev tools: AngularJS, InfluxDB and MongoDB;
    - IoT tools: Node-RED and Grafana.

2019 – 2021 - Scholarship Holder in Scientific and Technological Research Program.
UFES Telecommunications Laboratory, Vitória, Brazil.
- Software and hardware development for visible light communication systems.
    - Dev tools: MatLab and Android Studio;
    - Programming languages: Java, Python and C++.

2019 – 2020 - Automation Intern.
Cassiano Antonio Moraes University Hospital, Vitória, Brazil.
- Development of electronics for the hospital maintenance supervisory system. Preparation of technical documentation. Development of a data monitoring application.
    - Embedded systems based on Raspberry Pi, Arduino and ESP8266;
    - Real-time monitoring tool: Zabbix;
    - Programming languages: Python, Javascript and C++.

2019 - Scholarship Holder in Educational Program.
Tutorial Teaching Program, Vitória, Brazil.
- Software training, such as MatLab and LaTex. Research about embedded systems. Production of scientific articles.
    - Embedded systems based on Raspberry Pi and Arduino;
    - Dev tools: MatLab;
    - Programming languages: Python and C++.

VOLUNTEERING

2018 – 2019 - Activity Manager.
Academic Center of UFES Electrical Engineering, Vitória, Brazil.
- Organization of welcome events for new students, organization of lectures on subjects of interest to graduation, promotion of sports events, electrical engineering custom t-shirts selling, maintenance of the study room.

2018 - Museum Mediator.
UFES Museum of Life Sciences, Vitória, Brazil.
- Introduce the museum to visitors, control of the flow of people and passing safety guidelines.

DIGITAL SKILLS

LaTeX-BibTeX / Arduino robotics - basic / ESP8266 / Python 3 / C and C++ Programming / Microsoft Office Pack (Word, Excel, PowerPoint, Outlook) / Azure DevOps / MATLAB and Simulink / Raspberry Pi / Microcontrollers (Arduino, BeagleBone) / Javascript / Java programming language / Node.js Vue and Angular / MongoDB Query Language / InfluxDB.

LANGUAGE SKILLS

- Portuguese – Native Language.
- English – TOEFL ITP B1
  - o Listening: B1; Reading: B1; Spoken production: B1; Writing: B1.
- French – TCF B2
  - o Listening: C1; Reading: B2; Spoken production: B1; Writing: B2.

HONOURS AND AWARDS

2016 - Honorable Mention Brazilian Public School Mathematics Olympiad.
Institute of Pure and Applied Mathematics (IMPA), Rio de Janeiro, Brazil.
- Stood out in mathematics at this Olympiad, being the only high school student out of around 500 in the school to receive this award.

2016 - 1st place at the São João Batista School Science Fair.
EEEFM São João Batista, Cariacica, Brazil.
- Developed a Tesla coil capable of creating electric arcs of a few centimeters.

2015 - 2nd place at the São João Batista School Science Fair.
EEEFM São João Batista, Cariacica, Brazil.
- Developed a physics project involving basic concepts of electromagnetism to turn on fluorescent lamps wirelessly at close range.

PUBLICATIONS AND APPEARANCES

- **Performance Evaluation of an OOK-Based Visible Light Communication System for Transmission of Patient Monitoring Data**. Conference: IFMBE Proceedings. 2021.

- **Aplicação da Tecnologia de Comunicação via Luz Visível para Monitorização em Hospitais**. Conference: Brazilian Congress on Biomedical Engineering. 2020.

- **História do PET Engenharia Elétrica UFES**. Conference: Brazilian Congress of Engineering Education. 2020.

- **Módulo de Baixo Custo Para Sistema Supervisório de Subestações Hospitalares**. Conference: Congresso Internacional Online das Engenharias. 2020.

FOR MORE INFORMATION

- Linkedin: https://www.linkedin.com/in/alafsantos
- Github: https://github.com/alafSantos
- Lattes: http://lattes.cnpq.br/4461462146153067
- ORCID: https://orcid.org/0000-0002-5469-3872