

JESSÉ DE OLIVEIRA SANTANA ALVES

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Brazilian, 26 years old

Professional Goal

Work in process control, data science, artificial intelligence, and innovation.

SUMMARY OF QUALIFICATIONS

- Master's classes, laboratories and research projects related to Modeling and Simulation, Robotics, Artificial Intelligence, Imaging Processing, Compute Vision, Pose Estimation and Registration, Biomechanics Models, Economics, Administration and Creativity applied to the medical field.
- Experience in identifying and modeling continuous and discrete dynamic and linear physical systems.
- Emphasis on development of control techniques such as PID, Robust Control, LQR Optimal Control and Predictive Control.
- Development of programming languages: C, C++, Matlab, VBA, IDE Arduino, Python, SQL, LaTeX.
- Basics in HTML and V-REP.
- Experience with ROS2.
- Development of electronic circuits, from the part of dimensioning and simulations in programs, to the part of implementation in Breadboard and Printed Circuit Board (PCB).
- Experience in the operation of electronic devices such as multimeters, controlled voltage source, oscilloscope, function generator.
- Experience in low-level programming on ATMEGA328 chip registers in C language.

ACADEMIC EDUCATION

- Graduated in Technical Course of Electrotechnics – Colégio Integrado Polivalente.
 - Conclusion: july/2022.
- Bachelor's degree in electrical engineering with emphasis on Automatic Control and Automation – Universidade Federal da Bahia (UFBA), Brazil.
 - Conclusion: july/2022.
- Health Tech Master Student – Université de Strasbourg, France.
 - Conclusion: september/2024.

EXTENSION COURSES

- PRISMA – Programming in VBA and use of Macros in Excel. | Period: 2 months.
- Colégio Módulo – Spanish course. | Period: 3 years.
- PROFICI UFBA – German course. | Period: 1 year.
- EBEC – English course. | Period: 3 years.

ACADEMIC EXPERIENCES

ONDA ELÉTRICA UFBA GROUP | Period: may/17 to december/17

Designer of electrical and electronic educational experiments.

EXCHANGE AMERICAN ACADEMY OF ENGLISH – SAN FRANCISCO CALIFORNIA | Period: april/17 to may/17

CAMPUS PARTY – SÃO PAULO | Period: january/16

VOLUNTARY RESEARCH IN DRONE CONTROL | Period: september/20 to december/20

INTERNSHIP AT IBERDROLA NEOENERGIA COELBA | Period: july/21 to july/22

INTERNSHIP AT INSTITUT DE CHIRURGIE GUIDÉE PAR L'IMAGE (IHU STRASBOURG) | Period: may/23 to july/23

LANGUAGES

Fluent in Portuguese Fluent in English Advanced Spanish Intermediary French Beginner German

INFORMATICS KNOWLEDGE

Windows, Linux, Microsoft Office, Advanced Design System (ADS), National Instruments Multisim, LTspice, Protheus, Matlab, Simulink, Octave, Scilab, Dev C++, Plato, MPLabX, IDE Arduino, PSIM, Slicer, ROS2 Humble, VsCode, Paraview, Qt Creator, CREO PTC, ESP32 Environment.

ADDITIONAL INFORMATION

TEACH PRIVATELY AND TEACH IN THE CLASSROOM (ELEMENTARY SCHOOL TO HIGHER EDUCATION) | Period: may/18 to march/20

VOLUNTEER WORK FOR LOW-INCOME TEENAGERS – TEACH PRIVATELY AND TEACH IN THE CLASSROOM | Period: january/15 a july/22

LEADER OF THEOLOGICAL TEACHING AT THE MARANATA BAPTIST CHURCH | Period: Since April/20