
PROFILE

Electrical/Electronic Engineer with a proven experience in evaluating electrical/electronic systems and applying knowledge of electricity and electronics in a beneficial way. Adept in carefully diagnosing and assessing issues, and offering real viable solutions. Skilled in design, prototyping, installation and testing. Committed to working as a collaborative and positive team member, striving to utilize my knowledge and expertise for optimal engineering results.

EDUCATION

- **University of West of England-UWE** Bristol, UK
Machine Learning Jan. 2020 – April. 2020
- **Fluminense Federal University - UFF** Rio de Janeiro, Brazil
Master of Science in Computer Systems Jan. 2013 – March. 2015
- **Veiga de Almeida University - UVA** Rio de Janeiro, Brazil
Bachelor of Electrical/Electronic Engineering Jan. 2003 – Dec. 2007

EXPERIENCE

- **General Electric Oil & Gas/Baker Hughes** Bristol, England - UK
Lead Electrical & Electronic Engineer Feb 2019 - Present
 - **Electrical/Electronic Hardware Design:** Work on subsea control system, electrical and electronic equipment design. Including electrical panels, power units and communication equipment. Prepare product reports, test procedures and manuals by collecting, analysing, and summarizing information and trends. Perform computer-based component, circuit, and system simulation to prove out design performance and compliance with product specifications. Perform EMC test pre-assessment and attending EMC qualification at test house. Interface with internal customers and external production / mechanical engineering teams.
- **General Electric Oil & Gas** Macaé, RJ - Brazil
Lead Control System Engineer Aug 2010 - Feb 2019
 - **Subsea Multiplexed Control Systems:** Technical advisor for new equipment design, redesign and new development related to electronic control systems discipline. Help the customer to increase the equipment up time and develop maintenance routines. Commissioning and maintenance of subsea equipment as BOP (Blowout Preventer). Experienced in UNIX/QNX operational system, PLCs, software troubleshooting, embedded controllers, AC Motor drivers(VFD) and electro-hydraulic system. Experience with RS232, RS485, TCP/IP and profibus communications protocols.
- **Fugro SA** Macaé, RJ - Brazil
Technical Support Manager Mar 2005 - Sep 2010
 - **Geophysical Equipment:** Commissioning, Corrective and preventive maintenance of geophysics, positioning and vessel support equipment as generators, electrical / hydraulic winches, AC VFD drivers, control systems, DGPS and Survey/Seismic equipment (Side Scan Sonar, Sub bottom profiles, Multi beams, etc.) Electrical/Electronic/Controls Maintenance Workshop and offshore technical crew management. Design of electrical/electronic support devices. Fugro Academy's Engineering Instructor.
- **Brazilian Navy** Rio de Janeiro- Brazil
Electronic Technician Intern Jan - Dec 1994
 - **Radar and Communication Systems:** Commissioning, Corrective and preventive maintenance of Radar and Communication systems on board Submarines and Warships.

PROJECTS

- **Mux BOP Analytics:** Development of a computer method to detect Multiplex Blowout Preventer System failure using data analysis and multivariable statistics. Software developed in MySQL, R Studio and Python.
- **S.A.A.C:** Short Circuit Calculation Software for Three Phase Power Systems, using Delphi, Pascal and Matlab Languages.

LANGUAGE SKILLS

- **Portuguese:** Native (Dual Citizenship EU-Portuguese/Brazilian)
- **English:** Fluent

HARDWARE SKILLS

- **Communication Protocols:** Tcpi, RS-232, RS-485, RS-422, ModBus, Profibus, CAN, LIN, SPI
- **Microcontrollers/FPGA:** PIC, Arduino, ATMEL, ARM, Altera
- **Hardware Language and Simulation:** VHDL, SPICE, LTSpice, Proteus Simulator, Qucs, SPICE, MathCAD
- **Compliances and Standards:** EMC EN61000/EN55022, LV Voltage Directive EN/BS61010, Electrical Installation BS7671

PROGRAMMING SKILLS

- **Familiar with:** R, C, Pascal, Matlab, Simulink, Octave, Mathcad, Python, MySQL, HTML, CSS, C++, JavaScript

COMPUTER SKILLS

- **Operational Systems:** MacOS, Windows, iOS, Linux, QNX
- **Document Packages:** LaTeX, MS Office, Keynote, Markdown
- **Technical Packages:** AutoCAD, AutoCAD Electrical, Eagle Schematic and PCB Layout, Google SketchUp