Vanderson Pimenta Carvalho, MSc
MSc. in Computer Systems, Electrical/Electronic Engineer

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EDUCATION

Pontifical Catholic University of Minas Gerais - PUC-Minas — Minas Gerais, Brazil
Data Science and Big Data graduate studies — *Jul. 2018 – Present*

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 — Macaé, RJ - Brazil
Lead Control System Engineer — *May 2015 - Present*

- **Mux BOP System**: Technical support for all South America customers and all field services technician in the Latin America region. Technical advisor for new equipment design, redesign and new development related to the BOP control systems discipline. Work with USA engineering team to provide support and technical capabilities for our local customers. Help the customer to increase the equipment up time and develop maintenance routines.

General Electric Oil & Gas — Macaé, RJ - Brazil
Technical Support Specialist — *Aug 2010 - May 2015*

- **Mux BOP System**: Commissioning and maintenance of subsea equipment as BOP (Blowout Preventer) and diverters systems onboard drilling Rigs. Lead commissioning technician overseas. Issue technical reports and FAT (Field Acceptance Tests). Experienced in UNIX/QNX operational system, PLCs, software troubleshooting, embedded controllers, AC Motor drivers(VFD), PID controllers and electro-hydraulic system. Experience with RS232, RS485, TCP/IP and profibus communications protocols.

Fugro SA — Macaé, 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.

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**: Tcpip, RS-232, RS-485, RS-422, ModBus, Profibus, CAN, LIN, SPI
- **Microcontrollers/FPGA**: PIC, Arduino, ATMEL, ARM, Altera
- **Hardware Language**: VHDL

PROGRAMMING SKILLS

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

COMPUTER SKILLS

- **Operational Systems**: MacOs, Windows, iOS, Linux, QNX
- **Document Packages**: LateX, MS Office, Keynote, MarkDown
- **Technical Packages**: AutoCAD, DraftSight, Eagle Schematic and PCB Layout, Google SketchUp, Proteus Simulator, Qucs