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** — Bristol, England - UK
  Lead Electrical Engineer — *Feb 2019 - Present*
  - **Subsea Control Systems**: Work on state-of-art subsea control system equipment design, develop, and test. Including electrical panels, power units and communication equipment. Prepare product reports, procedures and manuals by collecting, analysing, and summarizing information and trends. Perform electrical and electronic simulations and power studies.
- **General Electric Oil & Gas** — Macaé, RJ - Brazil
  Lead Control System Engineer — *Aug 2010 - May 2015*
  - **Mux BOP Control Systems**: Technical advisor for new equipment design, redesign and new development related to the BOP 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.

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, SPICE

Programming Skills

- **Proficient**: R, C, Pascal, Matlab, Octave
- **Familiar with**: 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, DraftSight, Eagle Schematic and PCB Layout, Google SketchUp, Proteus Simulator, Qucs, Spice, LTSpice