Felipe Ximenes | Curriculum Vitae

Rio de Janeiro - RJ - Brazil – 21/01/1988

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Undergraduate Control and Automation Engineer completing master's degree. Passionate about science, with strong technical, business, and interpersonal skills for working in a team and successfully completing a project.

Previous Employment

Chemtech - A Siemens Business **Rio de Janeiro**
Control and Automation Engineer *2010–2016*

When I joined the company, I worked initially in the Instrumentation and Control team, acting in the elaboration of control logic and instruments specification for refineries and platforms. Then I was invited to join the P&D department where we developed a system for operating an underwater valve through a hydroacoustic modem called SHAR. After that, I joined the Offshore Instrumentation team to work in RIMS (Riser Monitoring System) and POS project for Petrobras FPSO.

Education

Academic Qualifications

CEFET/RJ **Rio de Janeiro**
Master - Theme: Autonomous vehicles navigation using deep learning *2017–2019*

CEFET/RJ **Rio de Janeiro**
Control and Automation Engineering *2007–2012*

Courses Qualifications

Udacity **USA**
Flying Car and Autonomous Flight Engineer Nanodegree *2019*

Udacity **USA**
Robotic Software Engineer Nanodegree *2017–2018*

Udacity **USA**
Deep Learning Foundation Nanodegree *2017–2017*

Udacity **USA**
Data Science I - Nanodegree Foundations *2017–2017*

Embedded Labworks **São Paulo**
Yocto Project *2016–2016*

Embedded Labworks **São Paulo**
Linux Device Drivers *2016–2016*

Embedded Labworks **São Paulo**
Embedded Linux *2016–2016*

Technical and Personal skills

- **Programming Skills:**

  - **C**
    Programming Language Certified Assciate (CLA) - C++ Institute

  - **C++**
    Certified Associate Programmer (CPA) - C++ Institute

  - **Embedded Linux**
    Buildroot, Yocto project, Device drivers

  - **RTOS**
    CMSIS-RTOS, mbedOs

  - **Python**
    Numpy, pandas, matplotlib, scikit-learn, anaconda, virtualenv, jupyter notebook and opencv

  - **Tensorflow/Keras/Pytorch**
    Convolutional Neural Networks, Recurrent Neural Networks and Generative Adversarial Networks

- **General Skills:**

  - Control Algorithms development
  - Develops simulations of robotic applications (Gazebo, RViz, MoveIt)
  - Knowledge in machine learning algorithms
  - Development on linux systems
  - Embedded communication buses and protocols (UART, SPI, I2C, CAN etc)
  - Computer vision algorithms implementation (Object detection, semantic segmentation, depth estimation)

- **General Business Skills:**

  - Team-oriented and collaborative
  - Ability to multi-task while maintaining attention to detail and deadlines
  - Creative-thinking and problem-solving skills
  - Ability to learn new technologies
  - Self-motivated

Languages

- **English - Advanced**

- **Deutsch - Intermediate (B1)**
  ICG - Instituto Cultural Germânico