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