

Felipe Ximenes | Curriculum Vitae

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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 - Siemens Business

○ Control and Automation Engineer

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.....

○ Master - Theme: Autonomous vehicles navigation using deep learning

○ CEFET

○ Control and Automation Engineering

○ CEFET

Courses Qualifications.....

○ Flying Car and Autonomous Flight Engineer Nanodegree

○ Udacity

○ Robotic Software Engineer Nanodegree

○ Udacity

○ Deep Learning Foundation Nanodegree

○ Udacity

○ Yocto Project

○ Embedded Labworks

○ Linux Device Drivers

○ Embedded Labworks

○ Embedded Linux

○ Embedded Labworks

Technical and Personal skills

○ Programming Skills:

- C

- Programming Language Certified Associate (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