RAFAEL ACCÁCIO NOGUEIRA

Curriculum Vitæ

Education

Nov. 2019 nov. 2022	**Ph.D in Automatic Control**, *CentraleSupélec/Université Rennes 1*, Rennes, France.
Sept. 2017 Sept. 2018	**Master 2 Research in Electronics - Signal, Imaging,Embedded Systems and Control**, *Control Path* *CentraleSupélec/Université Rennes 1*, Rennes, France.
Sept. 2016 Sept. 2018	**Automatic Systems Engineering - Supélec Formation**, *CentraleSupélec*, Île de France, France.
apr. 2013 jul. 2019	**Control and Automation Engineering Bachelor Degree**, *Universidade Federal do Rio de Janeiro*, Rio de Janeiro, Brazil.
apr. 2010 dec. 2012	**Electronics Technical**, *Centro Federal de Ensino Tecnológico Celso Suckow da Fonseca*, Rio de Janeiro, Brazil.

Experience

oct. 2018 feb. 2019 5 months	**Engineering Intership**, *Team: Machine Learning/Fraud Detection - Stone Pagamentos*, Rio de Janeiro - RJ - Brasil, Development of tools used by the internship. Data analyses for payment solutions. ○ Programs in Scala using Microsoft SQL Server and other tools ○ API Rest, Data Streams, State Machines etc using Akka library
apr. 2018 aug. 2018 5 months	**Engineering Internship**, *DEA - IRMV - TECH. VEH. INTELLIGENT - Renault*, Technocentre Renault - Guyancourt - Île de France - France, Development of supervision system for autonomous vehicle. ○ Interface ROS/Simulink using C++, Python and Matlab/Simulink ○ State machine using Stateflow
nov. 2017 apr. 2018 6 months	**Industrial Study Project**, *RTE - Réseau de Transport d'Électricité*, Rennes ↔ Paris, France, Development and validation of automaton to optimize the insertion of Renewable Energies.
july 2017 aug. 2017 2 months	**Engineering Internship**, *Institut d'Électronique et de Télécommunication de Rennes*, Rennes, France, Study of voltage control in Distribution Nets. ○ Simulation using PowerFactory ○ Interface between PowerFactory and Simulink ○ Automation of simulations with Python scripts ○ Control Validation

aug. 2015	**Scientific Initiation**,
june 2016	*Laboratório de Processamento de Sinais e Imagens Médicas, UFRJ*,
11 months	Rio de Janeiro, Brazil.

Design of Secure Control for prosthetic robotic arm for muscle atrophy suffering patients
- Modeling and servomotors control
- Signal Processing

july 2014	**Tutoring**,
july 2015	*Universidade Federal do Rio de Janeiro, UFRJ*,
13 months	Rio de Janeiro, Brazil.

- Logic Circuits:
  - Algèbre de Boole, Machines de Mealy et de Moore.
  - Fonctions logiques combinatoires et séquentielles

,

Rede Globo - Matriz, TV GLOBO,

.

- Central de Transmissão e Recepção de Sinais - CTRS
  - Transmission et Réception de Signaux Audiovisuels par Satellites, Fibres Optiques et Internet
  - Traitement des Signaux

IT Competences

Programming	C, C++, Matlab, Scala, Python, Java, LADDER, Grafcet, Wolfram Language, Fanuc's TP, LaTeX, SQL, Emacs Lisp, C#, Assembly, etc
Tools	Git, Bash, ESTEREL'S SCADE Suite / export to VxWorks, SysML, UML, Tikz, Simulink, PowerFactory, Siemens' Step7, ROS, HTML, Fanuc's Roboguide, Trello, Asana, Jira, Confluence, Github Projects etc
Operating Systems	Linux and Windows

Languages

	Listening	Speaking	Reading	Writing
Portuguese	Native	Native	Native	Native
French	Fluent	Fluent	Fluent	Fluent
German	Basic	Basic	Basic	Basic
English	Fluent	Fluent	Fluent	Fluent

Prizes

3rd	Industrial Robotics Olympics - FANUC - France

Interests

- Programming   - Smart Grids

-   -

-   -

-   -

-   -

-   -