

Tiago Correa Prata

R&D ENGINEER

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Summary

Current R&D Engineer at ABB. 7+ years experience combining industrial needs in programming skills and academic knowledge. Passionate for learning and teaching and fascinated by control theory and software engineering. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Education

IFSP (Sao Paulo Federal Institute of Technology)

M.S. IN AUTOMATION AND CONTROL ENGINEERING

- System Identification and Model Predictive Control applied on MIMO systems

Sao Paulo, Brazil

Jan. 2018 - Aug. 2020

UNICAMP (University of Campinas)

DEEP LEARNING FOR IMAGE RECOGNITION

- Utilization of Keras library (python) for image recognition

Campinas, Brazil

2017 (short course)

IFSP (Sao Paulo Federal Institute of Technology)

B.S. IN AUTOMATION AND CONTROL ENGINEERING

- Development of an wireless lightweight device for fist angle measurement
- Development of an Arduino library for embedded Neural Nets

Sao Paulo, Brazil

Jan. 2009 - Dez. 2013

Skills

Programming	Python, MATLAB, .Net, LaTeX, Node, Software Engineering
Engineering	Automation, Control Design, Signal Processing, ABB 800xA, Siemens Step 7, Mining, Cement
DevOps	Docker, Azure, TFS, DevOps, ABB Ability Edge
Back-end	Flask, FastAPI, REST API, NodeJS
Languages	Portuguese, English, Spanish, Italian
General	Strong teamwork, International experience (15+ countries), speak in public

Work Experience

ABB

R&D ENGINEER

- Developing products to reduce industrial costs and increase productivity for Mining, Aluminum and Cement industries.
- Supporting the development of Docker containers for ABB Ability and ABB Ability Edge
- Since 2019 - Project leader of ABB Conveyor Roller Inspection Services (CRIS)
 - - Coordinating teams worldwide
 - - Defining technical specifications
 - - Programming in low-level for robot motion and in high level for data analysis
 - - International conference presentations
 - - Listening to the customers to design new specifications and solutions
 - - Business support for internal and external clients
- From 2015 to 2018 - Tech leader and developer of ABB Ability AssetVista
 - - Programming base libraries for development support
 - - Converting maintenance experts know-how in code
 - - Teaching teams around the world on how to develop AssetVista new algorithms
 - - Supporting teams development
 - - Comissioning and support the comissioning of projects globally

Sao Paulo, Brazil

Oct. 2015 - Present

ABB

PROJECT ENGINEER

- Developing and delivering solutions in Advanced Process Control
- Implementation of Model Predictive Control and Fuzzy Logics for optimization of cement plants
- Plant modeling and model evaluation using ABB APC (Advanced Process Control) and ABB 800xA
- Publication of case studies based on the optimization process achievements

Sao Paulo, Brazil

Feb. 2013 - Sep. 2015