

Tiago Correa Prata

R&D ENGINEER

✉ tiagoprata@gmail.com | 📱 TiagoPrata | 🌐 tiago-prata

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. 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 - Apr. 2020 (present)

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
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
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
- - Commissioning and support the commissioning 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