RODRIGO LOPES CATTO

Mechatronics Engineer passionate about robotics.

PERSONAL INFORMATION

+55 (11) 99946-5688

STREET TUIM 371,

SÃO PAULO, SP - BRAZIL

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LINKEDIN

GITHUB

LANGUAGES

- Portuguese (Native)
- English (Advanced | Toefl 106)
- Spanish (Basic)

CERTIFICATES

- Universal Robots Service Training
- Beginning C++ Programming - From Beginner to Beyond
- Python for Computer Vision with OpenCV and Deep Learning
- ROS Basics In 5 Days
- ROS Navigation In 5 Days

HOBBIES

- Robot Combat
  - Co-founder of the robotics club.
  - Competed in robot fight and autonomous trekking categories.
- Home Automation
- Video creation

EXPERIENCE

ENGINEERING IN TRAINING (EIT)
ROCKWELL AUTOMATION | JAN 2020 - JUN 2020

- Five-month learning program on core Rockwell Automation (Allen Bradley) product technologies.

POTENTIAL ENGINEER INTERN
ROCKWELL AUTOMATION | JAN 2019 - DEZ 2019

- Responsible for supporting the business units in specific demands of each area. I was responsible for digital transformation projects within the company, involving programming in VBA and python. I also did a project involving machine learning to evaluate new leads based on historical data.

EDUCATION

MECHATRONICS ENGINEER BACHELOR
INSPER | JAN 2015 - DEZ 2019
GPA: 3.4

MECHATRONICS ENGINEER BACHELOR (EXCHANGE STUDENT)
UNIVERSITY OF LIMERICK | JAN 2018 - JUN 2018
GPA: 3.7

PROJECTS

RESEARCH SCHOLARSHIP
Development of an autonomous rc car using ROS. This involved the upgrade of an Akerman steering rc car hardware, sensor integration such as IMU, Lidar and Intel D435 camera. All controlled using Nvidia Jetson Nano and Arduino Due.
AUG 2018 - JUL 2019

FINAL ENGINEER PROJECT
Creation of embedded hardware using ESP32 and Azure to display, measure and adapt energy consumption to attend regulatory rules for retail stores.
AUG 2018 - JUL 2019

CONTROL PROJECT
Development and implementation of control laws for a self-balancing robot made out of Lego and controlled using Arduino.
AUG 2017 - DEZ 2017

Languages	Tools	Plataforms
C++	ROS (MoveIt | Navigation)	Jetson Nano
Python (OpenCV | Sklearn)	Arm Mbed	Arduino
MATLAB	Simulink	Raspberry Pi
Javascript	SolidWorks	ESP32