Rodrigo Bento Costa

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Education

Sao Paulo State University (Unesp)

Bauru, Brazil

2016-2021

B.Sc. Electrical Engineering

"Control of a Quadrotor UAV by Exact Linearization Approach"

Supervised by Prof. Paulo Sergio da Silva and Eng. M.Sc. Otavio Jose Dezem Bertozzi Junior.

Aeronautics Institute of Technology (ITA)

São José dos Campos, Brazil

MsC Electrical Engineering

2022-2023

"Using predictive control techniques to simulate a satelite plant dinamics with the use of a hovercraft model" Supervised By Prof. Roberto Kawakami Harrop Galvão Interrupted due to personal heathy issues

Professional Experience

GRM-Consultancy

São Paulo, Brazil

Internship at GRM-Consultancy

October 2021-March 2022

Inspection reports on electrical infrastructure safety and maintenance for buildings and houses.

Academic Experience

Sao Paulo State University (Unesp)

Bauru, Brazil

Teaching Assistant

March-December 2018

Signal Processing, Signals and Systems, Linear Control Systems I

Instructor: Prof. Paulo Sergio da Silva

Skills

O Programming and Software: MatLab, Octave, SciLab, Simulink, Xcos and NI LabView for Control System Moddeling, Proteus and NI Elvis for eletronics prototyping, simulation and instrumentation, Microwind for microeletronics CI layout design and test, LATEX, MS Office, Solid Edge, FreeCAD, KiCAD, CADeSIMU, Cura, C/C++, python and the package manager pip, environment virtualization with Python (venv), Java, Android Studio IDE, XML, ,LibGDX Java framework for game development.

Javascript and Typescript Basic Frameworks and APIs, HTML5, CSS3, use of frameworks and modules like webpack and gulp for minifying scripts and workspaces, makemigration from development to production environment (uglify operations) and for transpiring TS to JS and SASS/SCSS to common CSS, usage of Babel JS compiler for manual transpiring and within Gulp for automatization tasks, FireBase DataBase hosting for Android, basic data structures and backend architecture notion, OOP and functional paradigms, imperative and declarative paradigms. Postman API for web apps, Regex using Python, Jquery, Gulp, Webpack, Angular9, VueJS, React Core and React DOM web design frameworks and APIs. Ajax and express JS modules for programming HTTP, and HTTPS web protocol procedures as well as JSON server in npm package administrator for Node-JS. AWS and Netlify tools for websites deploys.

Structured Query Language (SQL) in the subdomains DDL, DQL, with MySQL Server, Docker for Windows and MySQL Workbench and DBeaver as SQL script and connection editors, usage of the CRUD concept for the design of Relational DB servers and non-relational/noSQL DB Servers (MongoDB), Windows Power Shell, WSL2, basic CLI commands for Windows Shell and Linux Terminal

Python and R modules and frameworks for AI and ML model implementations: SciPy, NumPy, Pandas, SciKitLearn, PyTorch, TensorFlow (numerical computing and creating models) and MatplotLib and SeaBorn (for data visualization) keras,randomForest and e107 for R, Rstudio, JupytherLab, Jupyter Notebook and Anaconda Navigator GUI environment for Data Science Studies and tests. Use of ACCENT and Ink-Ration concepts to vreate responsive, dynamic and user friendly graphics and dashboards.

- Other Skills: PCB layout design and soldering, embedded systems design (Arduino and STM32) using arduino and STM32 IDEs in C++ and C, IC components design, communication, reporting, and presentation skills, eletronic prototyping, 3D Printing, Ubuntu Linux Distributions, dualbooting and data partition processfor HD and SSD Memory Units.
- o Languages: Portuguese (Native), English (Fluent), Spanish (Intermediate), German (Basic).

Courses and Certifications

STARTER TRACK - ARTIFICIAL INTELIGENCE

Courses and Certifications	
○ UDEMY:	
DATA SCIENTIST TRAINING: THE COMPLETE COURSE 2023	Online January 2024
COMPLETE MODERN WEB COURSE WITH JAVASCRIPT 2022 + PROJECTS	Online June 2024
INTRO ROBOTICS DEVELOPER COURSE - USING ROS IN PYTHON	Online July 2023
PYTHON PROGRAMMING LANGUAGE	Online May 2024
ANDROID APP DEVELOPMENT WITH 7 REAL ANDROID APPS AND JAVA	Online July 2023
MICROCONTROLLER EMBEDDED C PROGRAMMING: ABSOLUTE BEGINNERS	Online Feburary 2023
MASTERING MICROCONTTROLLER AND EMBEDDED DRIVER DEVELOPMENT	Online Feburary 2023
 CRASH COURSE ELECTRONICS AND PCB DESIGN MIMO: 	Online January 2023
CERTIFICATE OF ACHIEVEMENT - CSS	Online May 2023
CERTIFICATE OF ACHIEVEMENT - Web Development	Online May 2023
CERTIFICATE OF ACHIEVEMENT - HTML	Online <i>May 2023</i>
- CERTIFICATE OF ACHIEVEMENT - Python	Online May 2023
o SENAI:	
"JOSÉ EPHIM MINDLIN" TRANSVERSAL COMPETENCE - PERSONAL FINANCES	Online November 2022
"JOSÉ EPHIM MINDLIN" TRANSVERSAL COMPETENCE - METROLOGY	Online June 2022
"RICARDO LERNER" TRANSVERSAL COMPETENCY - PROGRAMMING LOGICS	Online June 2022
"JOSÉ EPHIM MINDLIN" ELECTRICAL AND HYBRID VEHICLES	Online June 2022
FIT-Institute:	
	Online

July 2022

June 2022

References:

Prof. PhD Paulo Sérgio Da Silva, Professor at UNESP, Bauru

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