

Mauro CHIOZZI

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PROFESSIONAL EXPERIENCE

- Quality Engineer at Embraer S/A** - Botucatu, SP/BR
- USA Facilities Quality Supplier Interface
 - Production Quality KPIs Manager & Process QA
 - Mechanical Assembly & Structure Problem-Solver (RCCA)
 - Containment & Quality Gate Focal User
 - Product Design & Process improvement Interface
- APR/2021 - Currently
- Quality Engineer Intern at Embraer S/A** - Botucatu, SP/BR
- Process Optimization using Flask + ReactJS suit
 - Automated task handler using Django + Celery suit
 - Non-Conformity Integrated System - Quality Gate Management using Django RF + ReactJS suit
- FEB/2019 - OCT/2020
- Software Engineer Intern at SINFO** - Natal, RN/BR
IT organization focused on academic solutions development
- New features development (Java + JSF/JSP) using test-driven development (TDD) methodology.
- JAN/2017 - DEC/2018









ACADEMIC EDUCATION

- Postgraduate Student in Mechanical Engineering**
Thesis: Indoor Positioning System using Unknown AC-MF Beacons
Main subjects focused on Navigation Systems, E. Systems, Classic & Analytic Mechanics (Dynamics)
Campinas State University (UNICAMP) - Campinas, SP/BR
- FEB/2021 - Currently
- Introduction to Navigation Systems**
Postgraduate Special Student in Mechanical Engineering
Polytechnic School of the University of São Paulo (Poli-USP) - São Paulo, SP/BR
- FEB/2021 - JUN/2021
- Drone Simulation and Control - MOOC Technical Course**
Quadcopter modeling, simulation and route planning using MatLab
Instituto Superior Técnico (IST/University of Lisbon) - Online
- FEB/2021 - MAY/2021
- Mechanical Engineering**
Final Thesis: [Multi-axis loadcell development for AeroDesign Analysis](#)
Emphasis on Embedded Data Acquisition development, Thermodynamics Systems, Mechanical Systems, Machine Elements, Manufacturing Process
Federal University of Rio Grande do Norte (UFRN) - Natal, RN/BR
- JUL/2016 - OCT/2020
- Science & Technology - Mechanical Technologist**
Emphasis on Mechanical Design and Computational methods
Federal University of Rio Grande do Norte (UFRN) - Natal, RN/BR
- JAN/2013 - JUL/2016

ACADEMIC EXPERIENCE


MAY/2018 - OCT/2019	Embedded System Design & Data Acquisition (DAQ) Manager <ul style="list-style-type: none">• Evaluate requirements, functional & non-functional features• Evaluate and develop new sensors• Develop/improve, prototype, test and validate solutions using V methodology• SMD components soldering. Up to 0603 (1.6 x 0.8 mm) Car-Kará Aerodesign SAE Team - UFRN
MAY/2015 - MAY/2018	Team Co-Leader and Embedded System Design & DAQ Manager <ul style="list-style-type: none">• Develop new team-members• Promote Team synergy spirit• Product development life-cycle planning• Evaluate overall design integration. Car-Kará Baja SAE Team - UFRN
JUL/2017 - NOV/2017	Technical Committee Volunter IEEE Student-branch - Bahia Section / R9 - UFRN
AUG/2016 - AUG/2017	Scientific Undergraduate Researcher “Modalities Concurrency: Fundamentals and Applications in bioinformatics and Service-Oriented Computing” - PIB12828-2016 Science & Technology School - UFRN
JAN/2014 - AUG/2016	Undergraduate Teacher Assistant “Programming Logic” and “Introduction to Programming” courses Science & Technology School - UFRN
FEB/2014 - MAY/2015	Teacher “Introduction to Embedded Systems: Arduino Development” Mechatronics Introduction Group (GIM) Volunteer - UFRN

COMPUTER SKILLS¹


ENGINEERING:	SolidWorks  , Proteus Isis (Circuit Schematic) & Ares (PCB), SciLab/XCos, MatLab/Simulink, Ansys Workbench (static deformation and thermal simulation), SketchUp, Geogebra, RapidHarness, Catia, AutoCAD, VRML, Minitab
PROGRAMMING:	OOP, Python  , Django + DRF  , Flask, Celery, Selenium, Pandas, SQL, ReactJS, JavaScript, HTML  , CSS  , LaTeX, Java, Thymeleaf, Arduino FrameWork, C/C++  , Git  , FreeRTOS, VisualBasic/VBA, Access, SAP Scripting, STM IDECube
OFFICE:	Power BI, Excel  , Word, PowerPoint, MS Project, Slack, Trello, Jira, Confluence, ERP SAP, ERP MES

LANGUAGES

ENGLISH:	Fluent
ITALIAN:	Beginner
PORTUGUESE:	Mother Language
SPANISH:	Intermediary


¹ Approved by LinkedIn Assessments

PROJECTS PORTFOLIO

For more projects and details, navigate to portfolio website maurochiozzi.github.io/#/projects 

- Multi-axis loadcell for aerodynamic forces acquisition - *combined forces acquisition at up to 10 Hz*, 2019;
- Embedded System for radio-controlled airplane - *acquisition rate of 20 Hz in a small μC (15 params)*, 2018;
- Real-Time data viewer application (Java Swing) for telemetry systems - *refresh rate up to 100 Hz*, 2017;
- Carbon fiber steering wheel with integrated dashboard - *outstanding design & performance*, 2017;
- Distributed Embedded System for off-road vehicle - *ECUs scalability due to CAN Network*, 2017;
- Centralized Embedded System for off-road vehicle - *reliable data acquisition system with a small μC* , 2016;

PARTICIPATION IN SAE² COMPETITIONS

“SAE International’s Collegiate Design Series (CDS) competitions take students beyond textbook theory by enabling them to design, build, and test the performance of a real vehicle and then compete with other students from around the globe in exciting and intense competitions.” - [SAE International](#) 

2018	International: Baja SAE Kansas Phase - 10 th Overall
	National: 20 th Aerodesign SAE Brasil - 2 nd Overall
2017	National: 23 rd Baja SAE Brazil - 5 th Overall
	Regional: 13 th Northeast-Phase Baja SAE - 14 th Overall
2016	National: 22 nd Baja SAE Brazil - 9 th Overall

²Society of Automotive Engineers