Mauro Chiozzi

Website: maurochiozzi.github.io/
LinkedIn: in/mchiozzi
e-mail: mchiozzi95@gmail.com
Phone: +55 (14) 9 8230-9175
City: São Paulo (SP) / Brazil (BR)
Available for international assignment

Professional Experience

Apr/2021 - Currently

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 (8D/RCCA)
- 2D/3D (Catia Viewer) technical drawing interpretation
- Containment & Quality Gate Focal User
- Product Design & Process improvement Interface

Feb/2019 - Oct/2020

Quality Engineer Intern at Embraer S/A - Botucatu, SP/BR

- Process Optimization & Automated task handler
- Non-Conformity Integrated System - Quality Gate Management

Jan/2017 - Dec/2018

Software Engineer Intern at SINFO - Natal, RN/BR

IT organization focused on academic solutions development

- New features development using test-driven development (TDD).

Academic Education

Feb/2021 - Currently

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 - Jun/2021

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 - May/2021

Drone Simulation and Control - MOOC Technical Course
Quadcopter modeling, simulation and route planning using MatLab
Instituto Superior Técnico (IST/University of Lisbon) - Online

Jul/2016 - Oct/2020

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

Jan/2013 - Jul/2016

Science & Technology - Mechanical Technologist
Emphasis on Mechanical Design and Computational methods
Federal University of Rio Grande do Norte (UFRN) - Natal, RN/BR

Academic Experience

May/2018 - Oct/2019	**Embedded System Design & Data Acquisition (DAQ) Manager** • Evaluate requirements, functional & non-functional features • Evaluate and develop new sensors and actuators • Develop/improve, prototype, test, and validate solutions using SolidWorks, Ansys, and Proteus Suit • 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** • Develop new team-members • Promote Team synergy spirit • Product development life-cycle planning • Evaluate overall design integration • Develop/improve, prototype, test, and validate solutions using SolidWorks, Ansys, and Proteus Suit • Use of Brazilian Technical Standards to design and manufacture parts (NBR 17006, 17068, 6409) 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 Skills[1]

Engineering:	SolidWorks ☑ , Proteus Isis (Circuit Schematic) & Ares (PCB), SciLab/XCos, MatLab/Simulink, Ansys Workbench (static deformation and thermal simulation), SketchUp, Geogebra, RapidHarness, Catia V5 (part & assembly), Catia Viewer, 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 (Excel), 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

To check out more projects developed using CAx Tools (SolidWorks, Catia, Proteus, etc) and their 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 SAE[2] 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

[2]Society of Automotive Engineers