

Mauro CHIOZZI

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PROFESSIONAL EXPERIENCE

- FEB/2019 - OCT/2020 **Quality Engineer Intern at Embraer S/A** - Botucatu, SP/BR
3rd largest commercial aircraft manufacturer
Key-responsibilities: Process Automation; Non-Conformity Analysis between international sites.
- JAN/2017 - DEC/2018 **Software Engineer Intern at SINFO** - Natal, RN/BR
IT organization focused on academic solutions development
Key-responsibilities: new features development (Java + JSF/JSP) using test-driven development.

ACADEMIC EDUCATION

- FEB/2021 - Currently **MSc Student in Mechanical Engineering**
Thesis: AC Magnetic field-based positioning system development
Campinas State University (UNICAMP) - Campinas, SP/BR
- JUL/2016 - OCT/2020 **BSc in Mechanical Engineering**
Final Thesis: [Multi-axis loadcell development for AeroDesign Analysis](#)
Federal University of Rio Grande do Norte (UFRN) - Natal, RN/BR
- JAN/2013 - JUL/2016 **Bachelor of Sciences & Technology**
Mechanical Technologist, emphasis on Thermodynamics Systems
Federal University of Rio Grande do Norte (UFRN) - Natal, RN/BR

ACADEMIC EXPERIENCE









- MAY/2018 - OCT/2020 **Embedded System Design & Data Acquisition Manager**
Car-Kará Aerodesign SAE Team - UFRN
- MAY/2015 - OCT/2020 **Team Co-Leader and Embedded System Design & Data Acquisition Manager**
Car-Kará Baja SAE Team - UFRN
- JUL/2017 - NOV/2017 **Technical Committee Volunteer**
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
Sciences & Technology School - UFRN
- JAN/2014 - AUG/2016 **Undergraduate Teacher Assistant**
“Programming Logic” and “Introduction to Programming” courses
Sciences & Technology School - UFRN
- FEB/2014 - MAY/2015 **Teacher**
“Introduction to Embedded Systems: Arduino Development”
Mechatronics Introduction Group (GIM) Volunteer - UFRN

PROJECTS PORTFOLIO

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

- Process Optimization using Flask + ReactJS suit - *US\$ 12.100 annual saving*, 2020;
- Automated task handler using Django + Celery suit - *US\$ 10.950 annual saving*, 2020;
- Quality Gate management using Django RF + ReactJS suit - *US\$ 34.700 annual saving*, 2019;
- 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;


COMPUTER SKILLS¹

ENGINEERING:	SolidWorks  , Proteus Ares & Isis, SciLab/XCos, MatLab/Simulink, Ansys Workbench, SketchUp, Geogebra, RapidHarness, Catia, AutoCAD, VRML
PROGRAMMING:	Python  , Django + DRF  , Flask, Celery, Selenium, Pandas, SQL, ReactJS, JavaScript, HTML  , CSS  , LaTeX, Java, Thymeleaf, Arduino, C/C++  , Git  , VisualBasic/VBA, Access
OFFICE:	Power BI, Excel  , Word, PowerPoint, MS Project, Slack, Trello, Jira, Confluence, SAP, MES


LANGUAGES

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

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

¹ Approved by LinkedIn Assessments

²Society of Automotive Engineers