# Mauro Chiozzi


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


## Professional Experience

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| Apr/2021 - Currently | **Quality Engineer at Embraer S/A - Botucatu, SP/BR**<br>Key-responsibilities: Process Automation; root-cause analysis and corrective actions; process monitoring; quality gate key user. |
| Feb/2019 - Oct/2020 | **Quality Engineer Intern at Embraer S/A - Botucatu, SP/BR**<br>*3rd largest commercial aircraft manufacturer* |
| Jan/2017 - Dec/2018 | **Software Engineer Intern at SINFO - Natal, RN/BR**<br>*IT organization focused on academic solutions development*<br>Key-responsibilities: new features development (Java + JSF/JSP) using test-driven development. |

## Academic Education

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| Feb/2021 - Currently | **MSc Student in Mechanical Engineering**<br>Thesis: AC Magnetic field-based positioning system development<br>**Campinas State University (UNICAMP) - Campinas, SP/BR** |
| Feb/2021 - Jun/2021 | **MSc Special Student in Mechanical Engineering**<br>**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**<br>**Instituto Superior Técnico (IST/University of Lisbon) - Online** |
| Jul/2016 - Oct/2020 | **BSc in Mechanical Engineering**<br>Final Thesis: Multi-axis loadcell development for AeroDesign Analysis<br>**Federal University of Rio Grande do Norte (UFRN) - Natal, RN/BR** |
| Jan/2013 - Jul/2016 | **Bachelor of Sciences & Technology**<br>Mechanical Technologist, emphasis on Thermodynamics Systems<br>**Federal University of Rio Grande do Norte (UFRN) - Natal, RN/BR** |

## Academic Experience

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| May/2018 - Oct/2020 | **Embedded System Design & Data Acquisition Manager**<br>Car-Kará Aerodesign SAE Team - UFRN |
| May/2015 - Oct/2020 | **Team Co-Leader and Embedded System Design & Data Acquisition Manager**<br>Car-Kará Baja SAE Team - UFRN |
| Jul/2017 - Nov/2017 | **Technical Committee Volunter**<br>IEEE Student-branch - Bahia Section / R9 - UFRN |
| Aug/2016 - Aug/2017 | **Scientific Undergraduate Researcher**<br>"Modalities Concurrency: Fundamentals and Applications in bioinformatics and Service-Oriented Computing" - PIB12828-2016<br>Sciences & Technology School - UFRN |

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| Jan/2014 - Aug/2016 | **Undergraduate Teacher Assistant**<br>"Programming Logic" and "Introduction to Programming" courses<br>Sciences & Technology School - UFRN |
| Feb/2014 - May/2015 | **Teacher**<br>"Introduction to Embedded Systems: Arduino Development"<br>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 $\mu$C (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 $\mu$C*, 2016;

## Computer Skills[1]

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| Engineering: | SolidWorks ☑ , Proteus Ares & Isis, SciLab/XCos,<br>MatLab/Simulink, Ansys Workbench, SketchUp, Geogebra,<br>RapidHarness, Catia, AutoCAD, VRML, Minitab |
| Programming: | Python ☑ , Django + DRF ☑ , Flask, Celery, Selenium, Pandas,<br>SQL, ReactJS, JavaScript, HTML ☑ , CSS ☑ , LaTex, Java,<br>Thymeleaf, Arduino, C/C++ ☑ , Git ☑ , VisualBasic/VBA, Access |
| Office: | Power BI, Excel ☑ , Word, PowerPoint, MS Project, Slack, Trello,<br>Jira, Confluence, SAP, MES |

## Languages

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| English: | Fluent |
| Italian: | Beginner |
| Portuguese: | Mother Language |
| Spanish: | Intermediary |

## 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

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| 2018 | International: Baja SAE Kansas Phase - $10^{th}$ Overall<br>National: $20^{th}$ Aerodesign SAE Brasil - $2^{nd}$ Overall |
| 2017 | National: $23^{rd}$ Baja SAE Brazil - $5^{th}$ Overall<br>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
[2] Society of Automotive Engineers