

Marina Marques

Electronic Engineer

Master Degree in Biomedical Engineering

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WORK EXPERIENCE

Co-Founder and CTO (Jul-2017 to Mar-2018)

Startup Unite to Care - Brasília, Brazil

- Developed program code in Matlab using image processing techniques for segmentation and neural network back propagation to classify items.
- Designed and created marketing materials: website, business card, pitch presentations.
- Represented the company in fairs and entrepreneurs' events.

Research Assistant (Dec-2014 to Mar-2018)

Laboratory of Biomedical Engineering - Brasília, Brazil

- Worked with a team in a project nationally awarded as 1st place in Health Product Innovation of 2017.
- Built, tested and ex-vivo validated an active electrode for radiofrequency procedures.
- Collaborated in Preclinical/Clinical trials to evaluate efficacy and safety of electronic devices (class I, III).
- Developed a GUI interface and semi-automatic algorithm in Matlab to measure and give position of hepatic tumors in medical images (Ultrasound, MRI and TC files).
- Coauthored 15 publications (2016-2019): 3 book chapters, 6 journals (including A1), 6 congress articles.
- Managed laboratory operations including inventory, maintenance and budget.
- Collaborated across different departments to conduct interdisciplinary research.
- Mentored 4 undergraduate students and trained apprentices.

VOLUNTEER EXPERIENCE

Electronic Repair Technician (Nov-2018 to now)

Bridge Ministries Disability - Bellevue, Washington

Volunteering at the Medical Equipment Center assisting in repairing and refurbishing used scooters and power wheelchairs.

SKILLS

- Microsoft Office suite (Excel, PowerPoint, Word).
- Python, C, Matlab, Git.
- Adobe Photoshop and Premiere, InVision.
- Solid Edge, 3D printer, 3D scanner.
- Tableau, LaTeX, COMSOL, LabView, LtSpice, Mendeley.
- Spanish (basic), German (basic), Portuguese (fluent).
- Certificate in Data Visualization – University of Washington. 2019 (On going)

EDUCATION

Undergraduate in Electronic Engineering
University of Brasília - UNB - Brasília, Brazil
Graduation in December 2014

Master Degree in Biomedical Engineering
University of Brasília - UNB - Brasília, Brazil
Thesis defense in September 2016*

*Awards: Won University of Brasília 1st prize for best Engineering Thesis of 2016.