#### LUIZ GUILHERME DE CASTRO SANTOS

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## **Professional Experience**

## i3M – Instituto de Instrumentación para Imagen Molecular | CSIC | Valencia, Spain

R&D Engineer

#### Jul 2024 - Present

- Development and optimization of RF coils for specific applications, ensuring high-resolution imaging and patient safety.
- Design, testing, and integration of RF, DC, and AC circuits in complex MRI systems, including PCB design.
- Use of electromagnetic simulation tools to predict and enhance the performance of coils and circuits.
- Collaboration with engineering, physics, and software teams to develop innovative and integrated solutions.

## Grupo Suprimed (Abbott EP Division) | São Paulo, Brazil

Technical Consultant – Electrophysiology Systems

## Apr 2022 - Jul 2024

- In-theater support for RF ablation procedures using Ensite Precision 3D mapping.
- Operation of electrophysiological monitoring systems (polygraphy).
- Management of surgical materials and sterile logistics in cardiology units.

## Hexamedical | São Paulo, Brazil

Technical Laboratory Analyst – MRI Hardware

## Jul 2019 - Apr 2021

- Bench repairs of RF generators, amplifiers, power supplies, and MRI coils.
- Inventory control, KPI generation, remote technical support, and client service.
- Field experience with RF transducer diagnostics and component-level troubleshooting.

## Education

# PhD in technologies for health and well-being, Low-field dental magnetic resonance imaging

Universitat Politècnica de València (UPV), Spain

**Dec 2023 – Jun 2027 (expected)** 

# **MSc in Biomedical Engineering – Medical Devices**

Federal University of ABC (UFABC), Brazil

**Sep 2020 - Nov 2023** 

## **BSc in Biomedical Engineering – Instrumentation Focus**

Federal University of ABC (UFABC), Brazil

2018 - 2021

## **BSc in Science and Technology**

Federal University of ABC (UFABC), Brazil

2013 - 2018

## Languages

• **Portuguese:** Native

• Spanish: Fluent

• English: Fluent