

# CARLOS MATEO JURADO DÍAZ

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Dedicated Bioengineer with a strong foundation in medical devices and neuromodulation, currently advancing my expertise through a Master's degree in Artificial Intelligence. With extensive experience at Medtronic, I've honed my skills in providing surgical support, programming neurostimulators, and ensuring patient safety in high-stakes environments. My background in medical devices, combined with a strong analytical mindset and problem-solving abilities, equips me to contribute effectively to quality and compliance initiatives. I am committed to leveraging my technical skills and experience to drive innovation and support continuous improvement in the healthcare industry.

## SKILLS

- Neuromodulation Expertise: Deep Brain Stimulation (DBS), Spinal Cord Stimulation (SCS), Targeted Drug Delivery (TDD), Peripheral Nerve Stimulation (PH)
- Surgical Support: Assisted in DBS and PH surgeries
- Neurostimulator Programming: Skilled in programming neurostimulators
- Patient Care & Education: Educated patients on neuromodulation therapies
- Medical Device Management: Managed Stealth Planning Station, The Guideline 5, and neuromodulation implants
- Technical Proficiency: MS Office, R, Python, Azure, Flask, Bootstrap
- Communication & Collaboration: Effective in high-pressure environments

## EXPERIENCE

### Medtronic, Bucaramanga, Colombia – External Support

FEBRUARY 2023 – PRESENT

- Provided surgical support in neuromodulation procedures, including DBS, SCS, TDD, and PH, ensuring successful patient outcomes.
- Programmed neurostimulators (DBS, SCS, PH) to optimize therapeutic outcomes for patients.
- Conducted TDD pump refills, ensuring accuracy and patient safety.
- Provided MRI support, ensuring high-quality imaging and patient comfort.
- Educated patients on neuromodulation therapies, enhancing their understanding and adherence to treatment.

### University of Antioquia, Medellín, Colombia – Research Student

SEPTEMBER 2021 – APRIL 2022

- Designed and tested analog filters to enhance signal quality in an embedded sEMG signal acquisition system, significantly improving the clarity and usability of acquired signals.
- Integrated analog filters with an ADC and I2C interface to facilitate seamless digitization and signal processing, enhancing overall system efficiency and performance.
- Designed the PCB ensuring optimal layout for signal integrity and system performance, reducing noise and ensuring reliable data acquisition.

## **University of Antioquia, Medellín, Colombia** – *Laboratory Monitor*

NOVEMBER 2021 – APRIL 2022

- Tutor students in laboratory procedures and concepts.
- Review and manage laboratory inventory.
- Assist teachers in laboratory preparation and demonstrations.
- Review and comment on student lab reports.

## EDUCATION

### **International University of La Rioja, Spain** – *Master of Science (MS) in Artificial Intelligence*

MARCH 2024 – PRESENT, DISTANCE EDUCATION

### **International University of La Rioja, Spain** – *Graduate Certificate (GCert) in Data Analyst for Artificial Intelligence*

MARCH 2024 – PRESENT, DISTANCE EDUCATION

### **University of Antioquia, Colombia** – *Bachelor of Engineering (BE) in Bioengineering*

FEBRUARY 2015 – JUNE 2022, MEDELLÍN, COLOMBIA

## AWARDS

Achieved honors in the 2019-2 semester at the University of Antioquia.

Participated in an academic exchange in 2019 at the University of Veracruz in Mexico.

## LANGUAGES

Spanish (Native)

English (B2)

## CERTIFICATIONS

**Continuing Education Certificate in Leadership**, MIU City University Miami – April 2024

**Azure Fundamentals**, Microsoft – March 2024

**GitHub Fundamentals**, Microsoft – March 2024