MAIDER ABAD

BIOMEDICAL ENGINEER

CONTACT

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📍 Barcelona, Spain

🌐 https://maiderabad.github.io/

PROFESSIONAL SKILLS

Active Listening and writing skills
Critical Thinking
Complex Problem Solving

PERSONAL SKILLS

Creative
Sociable
Assertive
Good team working skills
Self-starter
Reliable and professional
Motivated

COMPUTER SKILLS

Good command of Microsoft Office™
MatLab
R
Python
Deep learning libraries (Keras, Tensorflow, PyTorch...)
C++
Shell scripting
Git
Docker

LANGUAGES

English: Full Professional Proficiency
Spanish: Bilingual or native proficiency
Euskera: Bilingual or native proficiency
Portuguese: Elementary Proficiency

ABOUT

I am fascinated by combining disciplines to provide an integrated and complete solution. I consider myself a hard-working person with time management skills since I have always combined studies with work. I hold a cheerful, proactive, and decisive personality that easily adapts to different environments.

WORK EXPERIENCE

TEACHING ASSISTANT
Universitat Oberta de Catalunya, Barcelona, Spain | Oct 2021 - Present
- Teaching assistant and Data Science master's thesis supervisor.

R+D SPECIALIST IN ILINE MICROSYSTEMS
iLine Microsystems, San Sebastian, Spain | Sep 2020 - Sep 2021

- Point of Care diagnosis solutions.
- Data processing specialist. Machine Learning, Big Data, Deep Learning, programming in R and Phyton.

QUALITY ASSURANCE ENGINEER
microLIQUID, Mondragon, Spain | Sep 2019 - Jul 2020

- Quality Management System Organization (ISO 13485: 2016 Medical Devices). Incident management, process improvement, control plans and quality plans.

RESEARCHER
Great Ormond Street Hospital for Children and University College London, London, UK | Oct 2018 - Jul 2019

- Patient-specific computational modelling to aid cardiac surgical planning. Simulation of heart operations in children for prospective and retrospective studies.

EDUCATION AND TRAINING

PHD CANDIDATE
Universitat Oberta de Catalunya, Barcelona, Spain | Sep 2021 - Present
- Artificial Intelligence applied to medical imaging diagnosis and image processing.

MASTER IN BIOMEDICAL TECHNOLOGIES
Mondragon Unibertsitatea, Mondragon, Spain | 2019 - 2021

Master's thesis at Iline Microsystems where new computational methods for the analysis of coagulation tests and their implementation in prototypes were developed.

BIOMEDICAL ENGINEERING UNIVERSITY DEGREE
Mondragon Unibertsitatea, Mondragon, Spain | 2015 - 2019

- Biomaterials, biomedical instrumentation, biomedical imaging, medical robotics, medical signal processing, anatomical and physiological systems.

PUBLICATIONS AND CONFERENCES

Calvo, M., Abad, M. and Díaz, O. (2017). Influence of induced respiratory rate on HRV values. In: XXXV Annual Congress of the Spanish Society Biomedical Engineering CASEIB. [online] pp.367-370.
Available in: http://seib.org.es/publicaciones-cientificas-caseib/

Abad, M. Casas-Roma, J. and Prados, F. (2022). Reducing the Learning Domain by Using Image Processing to Diagnose COVID-19 from X-Ray Images. In: 24th International Conference of the Catalan Association for Artificial Intelligence (CCIA 2022). [online] pp.229-238.
Available in: https://ebooks.iospress.nl/volumearticle/61249

PRESENTATIONS

Reducing the Learning Domain by Using Image Processing to Diagnose COVID-19 from X-Ray Images.
Deep Learning Barcelona Symposium, December 2022.

VOLUNTEERING

Volunteer at Young IT Girls (YITG)
March 2022 - Present
- Creating and developing activities to bring technology to primary, secondary, and high school students.
- Using games, talks, and interactive group dynamics to showcase the fun side of engineering.
- Inspiring vocation and promoting female professional references in the technology sector.
- Teaching the real-world applications of technology and innovation in daily life.