Javier Sainz Villalba

Email: javiervsainz@gmail.com
Citizenship: Spanish

Education

Master's degree in Biomedical Engineering
2022 | 2024
University of Zaragoza, Zaragoza-Spain

Engineer's degree (4 years) in Biomedical Engineering
2018 | 2022
European University of Madrid, Madrid-Spain

Certificate of Higher Education in 3D Animation and Virtual Environments
2016 | 2018
European University of Madrid, Madrid-Spain

Education certificate in Music, Double Bass specialty
2002 | 2015
Professional Music School of Majadahonda, Madrid-Spain

General Certificate of Education (Baccalaureate)
2014
High School José Saramago, Madrid-Spain

Languages

- Spanish - Native
- English - Proficient C1 TOEFL iBT

Programming

- Python - Advanced
- C# - Advanced
- Java - Proficient
- Matlab - Intermediate

Skills

- 3D design: Solidworks (certified), Autodesk Fusion 360
- 3D modeling: Maya, Blender
- Image Analysis: Matlab, Python
- Numerical simulation and mechanical testing: Abaqus, CoppeliaSim
- Electrical circuit simulation and testing: Proetus, Multisim
- Graphic Design: Photoshop, Autodesk Sketchbook

Research Interests

- Tissue engineering and material analysis: scaffolds, organoids, tissue-implant interface
- Design of prosthesis, orthesis and implants
- Design and development of rehabilitation aids
- Development of virtual environments for rehabilitation and educational purposes