

Sergio J. Elizalde F.

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Birth: 06/28/1997



EDUCATION

Catholic University

Electronic Engineer –Department of Electronics and Computer Science

Asuncion

2016–2023

- **Thesis:** “Implementation of Human Activity Recognition algorithm in a neuroprosthetic device”.
- **Advisor:** Ph.D. Fernando Brunetti

University of South Carolina

PhD in Informatics –Department of Integrated Information Technology

Columbia

2024–Current

- **Expected end date** 2028

EXPERIENCE

Catholic University

Junior Researcher/ Digital Electronics Laboratory

Asuncion

August 2022–Current

- **Keywords:** Neurorehabilitation, FES, Neuroprosthetics, Experts systems
- Design experiments to measure biomechanics of human movement during locomotion activities. Development of real time human recognition algorithms. Implementation of Finite States Machines in ARM microcontrollers.

TECHNICAL SKILLS

- **Programming/Scripting:** Matlab, C, Python, VHDL.
- **Technologies:** ARM microcontrollers, IoT, Biosignal Amplifiers.

COURSES

- Data Analyst Course 2022
UCOM University. Duration: 100 Hours
- Cisco Networking Academy Connecting Things course - IoT Fundamentals 2021
Universitat Politècnica de Valencia - UPV, Spain. Duration: 50 hours