

Samuel Cerezo

ELECTRONIC ENGINEER · PHD STUDENT

Pisa, Italy

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Nationality: Argentine, Spanish



“Engineering solutions that travel—across borders, systems, and challenges.”

Education

Universidad de Zaragoza

Zaragoza, Spain

PHD IN SYSTEMS ENGINEERING AND COMPUTER SCIENCE

2021 - now

- Designed and implemented sensor fusion pipelines for full state estimation using GPS, IMU, and RGB-D data. Work included synthetic dataset generation in photorealistic industrial environments and ongoing implementation of real-time C++ algorithms for visual-inertial initialization.
- Supported by competitive research FPI Grant.
- PhD expected to be completed by Dec. 2025.

Universidad Nacional del Comahue

Neuquén, Argentina

ELECTRONIC ENGINEERING

2014 - 2020

- Got a scholarship from YPF which is given to promising students (€5.000/y for 5 years).
- GPA: 8.69 / 10.

Skills

DevOps Git, GitHub, Docker, Azure

Programming C++, Python, Matlab, LaTeX, HTML

Languages Spanish (native), English (fluent), Italian (conversational)

Experience

KUKA

Augsburg, Germany

PHD INTERN

Apr. 2024 - March 2025

- Designed and implemented a complete data recording pipeline for a robotic cell. Tools: ROS2, Python, Docker container.
- Provisioned an easily manageable set of tools for data synchronization and temporal alignment, through different sources of data.
- Built fully SLAM pipeline for data testing based on 3D Gaussian Splatting for environment representation.

Hydroner Services

Neuquén, Argentina

SOFTWARE ENGINEER

Sept. 2020 - March 2021

- Designed and deployed IoT-based systems for water transfer in oil wells using Allen Bradley PLCs, achieving a 30% operational cost reduction for the company.
- Provisioned user guide for non-technical employee.

Matra SRL

Neuquén, Argentina

SOFTWARE ENGINEER

Jan. 2020 - Jul 2020

- Designed and implemented an automated silo control system for on-site storage and management of drilling fluid circuits, using PLCs.
- Provisioned a modular and easily maintainable infrastructure combining PLCs and HMIs, enabling future system enhancements. Developed clear technical documentation and user's guide.

Publications

GNSS-inertial State Initialization by Distance Residuals

S. Cerezo, J. Civera. [Submitted to RA-L, 2025](#)

SLAM&Render: A Photorealistic Dataset for Visual SLAM in Industrial Environments

S. Cerezo, G. Meli, T. Berriel, K. Safronov, J. Civera. [Submitted to RA-L, 2025](#)

Camera Motion Estimation from RGB-D Inertial Scene Flow

S. Cerezo, J. Civera. [CVPR 2024, Seattle, USA](#)

Compressive Sensing Mapping System for Spatial Characterization of Photovoltaic Devices

S. Cerezo, M. Córdoba, F. Quintián. [Argentine Conference on Electronics 2023, Buenos Aires, Argentina](#)