

Samuel Cerezo

ELECTRONIC ENGINEER · PHD STUDENT

Pisa, Italy

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Nationality: Argentine, Spanish



"Looking for a dynamic environment where knowledge and research can be transformed into concrete solutions for industry."

Education

Universidad de Zaragoza

Zaragoza, Spain

PHD IN SYSTEMS ENGINEERING AND COMPUTER SCIENCE

2021 - 2025

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

Universidad Nacional del Comahue

Neuquén, Argentina

ELECTRONIC ENGINEERING

2014 - 2020

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

Skills

DevOps Git, GitHub, Docker, Azure

Programming C++, Python, Matlab, HTML

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

Experience

KUKA

Augsburg, Germany

PHD INTERN

Apr 2024 - Mar 2025

- Designed and implemented a complete data recording pipeline for a robotic cell. Tools: ROS2, Python, Docker container.
- Provisioned a SLAM pipeline including Gaussian Splatting for environment representation along with robot joint readings.

El Chiringo - restaurant

Zaragoza, Spain

WAITER

Feb 2024 - Feb 2025

- Provided table service in busy hospitality settings during the weekends. Gained experience in customer interaction and order coordination.

Hydroner Services

Neuquén, Argentina

SOFTWARE ENGINEER

Sept 2020 - Mar 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.

Matra SRL

Neuquén, Argentina

SOFTWARE ENGINEER

Jan 2020 - Jul 2020

- Designed and implemented an automated control system for on-site management of drilling fluid circuits, combining PLCs and HMIs.

Publications

Camera Motion Estimation from RGB-D Inertial Scene Flow

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

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](#)

A Closed-Form Solution to Full Visual-Inertial State Initialization

S. Cerezo, H.L. Seong, J. Civera. [On process](#)