

# SERGIO MARTÍNEZ

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Senior ZK Protocol engineer with an aerospace background. Experience shipping production ZKsync (Ethereum L2) protocol upgrades across Solidity smart contracts and Rust node infrastructure. Focused on interoperability, upgradeability, execution efficiency, and reliable protocol delivery.

## PROFESSIONAL EXPERIENCE

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### Senior Protocol Engineer at Matter Labs

Remote

Engineering Team

Mar – Jul 2025

- DRI for ZKsync v29 upgrade, coordinating contract and server work for native interoperability support.
- Productionized protocol changes across contracts, node/server, storage, APIs, and integration test suites.
- Contributed to v29/v31 contract development: implementation, testing, reviews, and production readiness.
- Turned large release branches into focused PRs, improving code review quality and reducing release risk.
- Open source PRs: server #4221, #4730, #4769, #4756, #4608; contract contributions on: #1419, #1947.

### ZK Protocol Engineer at Term Structure

Taipei, Taiwan (R.O.C.)

Blockchain / ZK Team

Aug 2023 – Oct 2024

- Designed and built a custom zkVM for a rollup-based DeFi lending and borrowing platform.
- Designed an intent-based v2 of the Term Structure protocol, reducing costs and enabling upgradeability.

### Grantee for the Ethereum Foundation

Remote

Privacy and Scaling Explorations, Semaphore

Jan – May 2023

- Built a full-stack decentralized, private, and verifiable education platform using PSE Semaphore.

### Software Engineering Intern at Airbus Defence and Space

Madrid, Spain

Computer Vision Team, Flight Test Department

Feb – Jul 2021

- Developed a software simulation tool for evaluating different lidar sensors under flight test scenarios.

## EDUCATION

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### ISAE-SUPAERO

Toulouse, France

MSc in Aerospace Engineering. Major: Embedded Systems

2021 – 2023

- Researched scaling solutions based on ZK-proofs for embedded blockchains, published as IEEE paper.

### Polytechnic University of Madrid

Madrid, Spain

BSc in Aerospace Engineering. Major: Aerospace Sciences and Technologies

2016 – 2021

- GPA: 8/10, top 10%. Special distinction in 8 subjects covering Math, Physics, and Computer Science.

### Polytechnic University of Madrid

Madrid, Spain

Business Analysis with Big Data for the Industry

Oct – Dec 2020

## SELECTED PROJECTS, GRANTS & RECOGNITION

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### Selected Participant, Succinct ZK Residency

Sep – Oct 2024

- Focused ZK residency with builders from across the industry, built an infinitely scalable auction protocol.

### Mina Growth Track Grant Recipient

Aug – Dec 2024

- Developed an ERC-4337-like standard on Mina, enabling account abstraction with non-native signatures.

### ETHGlobal Istanbul Hackathon Winner

Nov 2023

### ETHGlobal Paris Hackathon Winner

Jul 2023

### Filecoin Web3 Infinity Hackathon Winner

Aug 2022

### Python EVM-Based Telegram Trading Bot

Aug 2021

- Sold 10 licenses for a Telegram DeFi trading bot I built and maintained.

## ADDITIONAL INFORMATION

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### Languages:

- Spanish: native
- English: bilingual (Cambridge C2, 220/230)
- French B1

### Technical Skills:

- Rust, Solidity, Circom, Python, TypeScript
- Ethereum/EVM, Rollups, ZK, zkVMs
- Tools: Git, Docker, Linux