

MARIANO DELLA NINA

SPACE SYSTEM ENGINEER

Córdoba, Argentina
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LinkedIn Profile

PROFESSIONAL PROFILE

Systems Engineer and Project Manager with 15+ years of experience in satellite missions at CONAE (Argentina's space agency). Deep expertise in ground segment operations, mission lifecycle management, and multidisciplinary team leadership — spanning design, integration, verification, launch, and on-orbit operations. Proven track record delivering complex aerospace programs (SABIA-Mar, SAOCOM, SAC-D) on schedule and within technical scope. Certified Scrum Master and Product Owner with growing proficiency in data science and QA automation. Committed to applying a systems-thinking approach to the challenges of space launch in a dynamic, international environment.

PROFESSIONAL EXPERIENCE

SABIAMar Launch Segment Deputy Manager | CONAE– *present - Córdoba, Argentina*

- Developed the Spacecraft-to-Launch-Vehicle Interface Control Document (ICD), defining mechanical, electrical, and environmental requirements.
- Prepared the project launch campaign plan, scheduling timelines, milestones, and daily operations.
- Coordinated the logistics and transport planning for flight hardware, ensuring safety and compliance during transit.
- Supported technical coordination between the satellite team and the launch service provider to align interface specifications.

SABIAMar Ground Segment & Operations Manager | CONAE– *2024 - 2025 - Córdoba, Argentina*

- Lead end-to-end coordination of ground system development, including mission operations centers and ground station networks.
- Manage software integration and validation activities across multidisciplinary engineering teams.
- Design and document mission operations concepts and procedures for pre-launch and on-orbit phases.
- Oversee contractor and subcontractor management: scope definition, schedule tracking, and performance reviews.
- Implement risk management strategies and maintain program schedules aligned with agency and international partner milestones.
- Prepare and present program status reports, formal review documentation, and technical briefings to senior management and stakeholders.

SAOCOM Operations & System Engineer | CONAE **-** *2016 – 2022 — Córdoba, Argentina*

- Served as Launch Director for SAOCOM-1B, coordinating launch readiness across all technical and operational teams at Vandenberg Air Force Base (USA).
- Supported early orbit operations (LEOP) and commissioning activities, ensuring nominal spacecraft health and ground-satellite link establishment.
- Led verification and validation (V&V) campaigns for flight software and ground systems.
- Developed flight procedures, contingency plans, and ground operations simulations.
- Coordinated with international partners (NASA, ASI, ESA) for mission-critical reviews and joint operations.

Launcher Ground Segment Eng & OPS Mng | CONAE **– VEX Programme** *2012 – 2015 — Córdoba, Argentina*

- Served as OPS Manager for an experimental satellite launch vehicle programme — directly responsible for ground segment operations of Argentine launcher.
- Led the software development team for launch operations, including design and delivery of a Telemetry Monitoring System (TMS) and distributed Ground Support Equipment (GSE) software.
- Defined and managed Ground Segment requirements for launcher facilities and operational sites, from concept through commissioning.
- Planned and executed all operational phases: Integration & Test (I&T), enlistment, and launch campaign operations for the launch vehicles.
- Specified, procured, and integrated ground support equipment: meteorological systems, antenna networks, CORTEX hardware, communications, and data processing infrastructure.

SAC-D Operations Engineer – ATLO, LEOP & Commissioning | VENG - *2010 – 2012 — Córdobas, Argentina*

- Provided operational leadership during Assembly, Test, and Launch Operations (ATLO) phases.
- Supported Launch and Early Orbit Phase (LEOP) and spacecraft commissioning for the SAC-D/Aquarius satellite (NASA/CONAE joint mission).
- Performed functional testing of subsystems and integration of ground support equipment.

Production Team Leader SPINLOCK - *2004 – 2009 — Córdobas, Argentina*

- Leade of Spectrometer Production by Nuclear Magnetic Resonance (NMR) and coordinated R&D activities in electronics. The company develops laboratory equipments and applications for food and oil industry based on the principles of NMR. I was also part of research in substance detection through Nuclear Quadrupole Resonance (NQR) for which we developed a prototype

EDUCATION

[2006] **Electronics Engineer** - Universidad Nacional de Córdoba, Córdoba, Argentina

[2014] **Quality Engineering Specialist** - Universidad Tecnológica Nacional, Córdoba, Argentina

[2016] **Project Management – PMI standard training** KINETIC, Córdoba, Argentina

[2023] **Diplomatura Métodos AGILE** | Universidad Tecnológica Nacional (UTN-BA) - Buenos Aires, Argentina

[2023] **Product Owner/ Scrum Master Certification**, SCRUM INC, Córdoba, Argentina

[2025] **Data Science & IA Automation**, CODEHOUSE, Córdoba, Argentina

CERTIFICATIONS & TRAINING

- ✦ Certified Scrum Master (CSM)
- ✦ ECSS Standards – Space Project Management
- ✦ QA Automation & Software Testing
- ✦ Certified Product Owner (CSPO)
- ✦ Data Science & Machine Learning

KEY SKILLS

Program Management	**Ground Segment &Ops Management**	**Launch Operations**	**ECSS / Space Standards**	**Agile / Scrum**
V&V Campaigns	**Stakeholder Mgmt**	**Scheduling & WBS**	**Risk Management**	**Multidisciplinary Teams**

LANGUAGES

Spanish Native **English** Intermediate (B1)

INTERNATIONAL EXPERIENCE

- Coordinated with NASA (Goddard Space Flight Center, Vandenberg AFB), ASI (Italian Space Agency), and ESA for joint satellite programs.
- Participated in international mission reviews (PDR, CDR, MOR, VRR, FRR) conducted in English with multinational teams.
- Operational experience as Launch Director for SAOCOM-1B (2020).
- Familiarity with Ground Stations operations environment through SABIA-Mar mission planning coordination.
- Deployed to Houston and South Dakota to perform on-site installation, cabling, and calibration of industrial magnetic resonance equipment