

Samuele Arabia

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PROFESSIONAL SUMMARY

Driven Computer Engineering student with a solid software foundation and a strong ambition to grow within the embedded systems space. Bringing hands-on C++ experience from competitive aerospace projects, I am seeking a junior engineering role to further develop my skills and tackle complex hardware-software integration challenges.

EDUCATION

Sapienza University of Rome
B.Sc. in Computer and Control Engineering

Rome, Italy
Sep. 2022 – Expected Dec. 2026

EXPERIENCE

Sapienza Rocket Team
Avionics Software Developer

Rome, Italy
Oct. 2025 – Present

- Developed and optimized embedded C++ firmware for real-time flight data acquisition and sensor integration.
- Collaborated within a cross-functional engineering team to design, test, and troubleshoot the avionics module under strict hardware and resource constraints.

PROJECTS

CodeForge - PortFolio | *JavaScript, Astro, Node.js, React.js, MongoDB, Tailwind CSS*

May 2026

- Designed and built a responsive personal web portfolio utilizing Astro and React.js for modern frontend delivery.
- Integrated a Node.js backend ecosystem with MongoDB to streamline data workflows, styled entirely with Tailwind CSS.

NT-To-SQL | *Python, SQL, Full-Stack Development, Docker*

Jun. 2025 – Aug. 2025

- Designed and built a full-stack web application capable of translating natural language queries into accurate SQL statements.
- Implemented NLP integration to bridge the gap between non-technical users and complex database querying systems.
- Containerized the application infrastructure using Docker to ensure consistent development and deployment environments.

TECHNICAL SKILLS

Languages:	C/C++, Python, Java, SQL, JavaScript.
Tools & Technologies:	Git, CMake, Docker, Picotool, Node.js, MongoDB.
Core Competencies:	Data Structures, Algorithms, System-Level Architecture.

LANGUAGES

Italian: Native

English: C1+

French: C1+