

GIOVANNI STANCAMPIANO

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SKILLS

- ReactJs, NextJs, Typescript, Tailwind, Three.js, GSAP, C++, C, Python, DXL, Matlab, LaTeX
- Front-end, User Interface, User Experience, Web-Developer, Automation, System Design

WORK EXPERIENCE

TXT E-Tech: *System Engineer*

March 2024 – Current

- Design and development of test benches and other testing equipment, including the AVBUP project for the C-27J ATR#4 Avionic Integration Rig, a critical asset for testing and validating avionic systems to ensure seamless integration, functionality, and reliability.
- IBM Rational DOORS for creating formal models, development of advanced DXL scripts for process automation, and the ability to create custom templates for exporting from DOORS to Word and vice versa using IBM Rational Publishing Engine tools.
- Authored the Functional System Specification document, detailing the functional requirements for the design, development, manufacturing, and qualification of the C-27J ATR#4 Avionic Integration Rig.
- Developed qualification test procedures and conducted analysis assessments to verify compliance with design requirements and ensure the reliability of the avionic systems.
- Extensive expertise in requirements analysis, traceability management, and advanced DOORS system configuration to ensure performance optimization and maximum efficiency in the development environment.

TXT E-Tech: *Integration & Test Engineer*

September 2023 – March 2024

- Experience in designing and conducting security and reliability tests for avionics systems.
- Test automation to improve efficiency and accuracy
- Avionics communication systems, including protocols such as ARINC 429, MIL-1553, MIL-3910.
- Use of specialized testing tools for avionics systems.

Freelance Web Developer: *FrontEnd & BackEnd*

September 2024 – Current

- Developed modern web applications using ReactJs, NextJs, TypeScript and Tailwind to build responsive and high-performance user interfaces.
- Implemented 3D animations and interactive visual effects using Three.js and GSAP to enhance user engagement.
- Designed and deployed scalable back-end solutions with Python to manage business logic and database integrations.
- Collaborated with clients to deliver customized web solutions, ensuring seamless user experiences and adherence to project timelines.
- Experience with software version control system tool such as GIT

PERSONAL WEBSITE

- [Giovanni's Portfolio \(online-inky.vercel.app\)](#)

EDUCATION

Polytechnic Of Turin

Turin, Italy

Master's Degree Aerospace Propulsion System Engineer

2022 – 2025

B.S Aerospace Engineer

2018 – 2022

Relevant work: Study and analysis of major aerospace propulsion systems, including both air-breathing and non-air-breathing engines, with a focus on Air-Turbo-Rocket technology. Skilled in the design and analysis of aerospace components, systems, or vehicles using engineering software like MATLAB and ANSYS. Conducted mathematical simulations (MatLab) of an Air-Turbo-Rocket prototype to verify and compare expected results. Analyzed electric and electrothermal propulsion systems, and performed computational fluid dynamics (CFD) studies of propulsion systems. Specialized in fluid dynamics and gas dynamics related to turbomachinery, including the design and simulation of a hypersonic vehicle (Wave-Rider) using MatLab. Experienced in the analysis and optimization of power gearboxes for aerospace propulsion applications, focusing on performance, efficiency, and reliability in turbomachinery systems. Experienced in structural design, analysis, and material selection for aircraft and spacecraft construction. Knowledgeable in avionics systems.