GIOVANNI STANCAMPIANO

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SKILLS

- ReactJs, NextJs, Typescript, 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 and creation of system schematics for the integration of test assets.
- 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.
- 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.

PERSONAL PROJECTS

- Giovanni's Portfolio (online-inky.vercel.app)
- Apple iPhone (apple-pro-website--lake.vercel.app)
- Brainwave (brainwave-one-tau.vercel.app)

EDUCATION

Polytechnic Of Turin
Turin, Italy
Master's Degree Aerospace Propulsion System Engineer March 2022 – Current
B.S Aerospace Engineer September 2018 – March 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 structural design, analysis, and material selection for aircraft and spacecraft construction. Knowledgeable in avionics systems.