

Tomás Zenoglio de Oliveira

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Summary

Mechanical Engineering student with hands-on experience in mechanical systems, vehicle maintenance, rocket assembly, thermal insulation, MATLAB/Python modelling and structural analysis. Interested in internships in mechanical design, maintenance engineering, vibration analysis, testing and industrial systems.

Experience

- R.I.S.E – Netherlands, Systems Engineer

Sept 2023 – Jan 2024

 - Coordinated multidisciplinary work during the production and assembly of two student rockets, supporting mechanical integration, thermal protection and structural packaging decisions.
 - Developed and tested thermal insulation solutions for a rocket engine bay, protecting control electronics from thermal exposure.
 - Redesigned internal structural components to increase usable internal volume while preserving mechanical integrity and assembly constraints.
- Auto Minuto Racing Team – Portugal, Mechanic

Sept 2021 – Aug 2022

 - Optimized vehicle performance and ensured technical compliance with racing regulations.
 - Experienced in leading technical teams and managing all phases of vehicle preparation and maintenance.
- Auto Minuto – Portugal, Mechanic

Sept 2021 – Aug 2022

 - Diagnosed, repaired, and maintained vehicles.
 - Performed preventive maintenance and resolved mechanical and electrical issues.

Education

- BSc Atlantica University, BSc in Mechanical Engineering

Sept 2024 – Feb 2027
- BSc University of Twente, BSc in Electrical Engineering

Sept 2023 – Feb 2024
- BSc University of Twente, BSc in Mechanical Engineering

Sept 2022 – Sept 2023

 - Simulated and optimized in MATLAB a biomass-based Rankine-Brayton hybrid power plant (Vietnam). Conducted life cycle analysis to assess sustainability.
 - Structural modeling of 150m maritime cranes in Python using FEM, ensuring efficiency and structural integrity.
- Summer Camp

Massachusetts Institute of Technology, Summer Camp in RPG Game Design

Aug 2016

Skills

Languages: Portuguese (Native), French (Native), English (C1), German (A1)
Programming: C++ , C, MATLAB, Python
Technologies: SolidWorks, CATIA, KiCad, Blender, MS Word, Excel, PowerPoint, LaTeX

Extracurricular Activities

Sports: Bodybuilding, former athlete in Traditional Taekwondo
Crafts: Modeling, various electronics projects, car restoration, carpentry
Interests: Music, cinema, literature, design