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CROUTS DE PAILLE QUENTIN

Mechanical Engineering Student

EDUCATION

High School Diploma (Specialization in Math-Physics-Chemistry) - Honors
Lycée polyvalent privé Emilie de Rodat - Toulouse (31)
2019 - 2022

Prépa des INP
Preparatory Class for National Polytechnic Institute - Toulouse
2022 - 2024

ENSEEIHT
Department of Fluid Mechanics, Energy & the Environment
2024 - today

LANGUAGES

French (Native)
English (Advanced)
Spanish (Intermediate)
Chinese (Beginner)

SOFTWARE AND PROGRAMMING

C, C++, Python, Matlab, Fortran
Ansys Fluent, Solidworks
HTML, CSS, JavaScript

SPORTS

Running, volley, sanda (Chinese boxing)

Professional Experience

May 2024 - June 2024
Internship- DGA (French Defense Procurement Agency

Study, Simulation, and Prototyping of Aerial Target Towing Systems
- Technical research and analysis
- Modeling and simulation
- Sizing and prototyping
- Conducting experimental tests
- Collaboration and project management

July 2021 - August 2021
GED40 - Landes Departmental Employer Group

Corn Detasseling
- Perseverance and resilience
- Teamwork

Associative Experience

Astre & Tolosat - Member of the CubeSat Club (Thermal subsystem)
Participated in the design of nanosatellites in collaboration with students from diverse technical backgrounds. Skills: project management, teamwork, problem-solving, interdisciplinary applications in aerospace engineering.

7Fault - Video Game Development Enthusiast
Created games using the Godot engine: programming, design, and testing. Skills: logic, creativity, project planning, coding skills, problem-solving

TVN7 - Film Production and Cinematography
Produced short films: conceptualization, direction, editing. Skills: visual storytelling, collaboration, attention to detail, ability to communicate complex ideas visually.

Music - Guitarist (8+ years of experience)
In-depth experience in guitar and live performance (concerts, weddings, Club'Zik). Skills: improvisation, adaptability, public confidence, teaching, creative expression (jazz, rock).

Academic and Professional Projects

Computing Projects
Web Development: Created personal e-portfolio in HTML, CSS, and JavaScript
Automated game-solving (Cogitus Sudoku, Connect4) in Python with data processing and optimization
Designed an automated PERT diagram in Python to optimize project tracking and resource allocation

3D Design and Printing
Modeling (Fusion360 and Blender), prototyping, industrial design, 3D printer proficiency

Humanitarian Project (2025) - Charity Mission in Nepal:
Provided logistical aid and educational support; skills in intercultural understanding, empathy, and organizing charitable events