HEIEFITU TAIAAPU

ENGINEERING STUDENT

ELISA Aerospace student aspiring to become an aerospace engineer, with a solid academic foundation and hands-on experience in project management and flight safety. Focused on computer-aided design (CAD), with strong skills in design optimization. Skilled in working with industry-standard CAD tools to model, simulate, and analyze data.

CONTACT

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PORTFOLIO: link

SKILLS

CAD SOFTWARE: 3DExperience CATIA, Autodesk Fusion 360

SIMULATION & ANALYSIS: ANSYS Fluent, Matlab & Simulink, Abaqus Simulia

PROGRAMMING: Python, C++, VBA, AppleScript

OFFICE TOOLS: Microsoft Word, Excel, PowerPoint

LANGUAGES

FRENCH - *Native*
Voltaire Certification score: 851 pts

ENGLISH - *CEFR Level : C1*
TOEIC score : 950 pts

SPANISH - *Beginner*

WORK EXPERIENCE

FLIGHT SAFETY & SECURITY ENGINEER INTERN **Aug. 2023 - Nov. 2023**

AIR TAHITI Airline

- Developed and programmed a comprehensive Excel-based application for the integration, management, and visualization of 30+ bowtie diagrams, establishing the department's risk management framework.
- Innovated a data entry module for capturing and analyzing 1000+ events, assessing the effectiveness of safety barriers during flight incidents.
- Leveraged automation to advance statistical analysis, providing key insights into the efficacy of safety measures and supporting continuous improvement in flight safety practices.

AIRPORT OPERATOR INTERN **June 2021 - July 2021**

Civil Aviation Authority of French Polynesia

- Conducting comprehensive evaluations of field reports to identify root causes of aviation events.
- Authoring 12 detailed and instructive RETEX reports that provided field agents with a clear understanding of incidents, contributory factors, and the strategies for preventing recurrence.

ENGINEERING PROJECTS

AIRSHIP PROTOTYPE

- Programmed an Arduino Nano to enable precise maneuverability, including multi-directional control, and developed a PID control system for steady flight.

AIRCRAFT ENGINE DESIGN

- Engineered detailed 3D parts for a DEPERDUSSIN aircraft replica, focusing on manufacturing accuracy.

EDUCATION

AEROSPACE ENGINEERING DEGREE *Exp. graduation* - **Dec. 2025**

ELISA Aerospace

- GPA equivalent to 3.62 (French grade conversion).
- Relevant coursework: Computer-Aided Design, Materials Resistance, Composites, Space Propulsion, Fluid Mechanics.