Achille Fruchard

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🎓 EDUCATION

Mines Paris - PSL, *Master's degree in Engineering*
Applied Mathematics, Quantum Physics, Computer science
<div align="right">09/23 — present · Paris, France</div>

Mines Paris - PSL, *Master's degree in Engineering* Applied Mathematics, Quantum Physics, Computer science	09/23 — present Paris, France
Lycée Montaigne Bordeaux, *Preparatory classes for Grandes Ecoles* Intensive Classes in Mathematics and Physics, Valedictorian of class	2021 — 2023 Bordeaux, France

💼 PROFESSIONAL EXPERIENCE

Nuclear physics and high energy lab (LPNHE), *Lab intern - Cosmology* • Detection of blurrying effects on telescope's cameras • Mass treatment of astronomy data	11/24 — 02/25 Paris, France
KPNS-Piramide, *Intern in chemical factory* • Help with production of chemical compounds • Assisted workers with the logistics	04/24 — 05/24 Saintes, France
Mines Paris - MIG, *Engineering project at Mines Paris - Lithium* • Study of lithium mines projects in France • Use of professionnal softwares to simulate geology	10/23 — 11/23 Paris, France

📁 PROJECTS

Ergonomy - VR, *Virtual Reality application* • Developed an application in Virtual Reality with movement trackers for sports learning and help with rehabilitation of disabled people • Worked with Unity and Blender, coding in C#	09/24 — 12/24
Drone, Design of a quadricopter drone prototype • Design and assembly of the structure of the drone • Blades prototyping and printing • Imposed constraints in weight and blade noise • Successful flights and manoeuvres	02/25 — 05/25
3D scanner with mobile phone, *Project for an industrial company* • Easy to use scanner using two mobile phones to 3D scan objects • Use of trained models to generate depth maps • ICP and point to plane algorithms in python	

🏠 ORGANISATIONS

Cartel Paris 2025, *General Secretary* • Organisation of a 2000 people inter-university sports turnament • Management and planning of all the staff (150 volunteers) • Managed all the logistics of the event	12/23 — 04/25 Paris, France
Minestry, *Chairman of the association* • Chairman of lighnting association for Mines Paris events • Installation of fixtures and programmation of light shows • Maitenance and acquisition of fixture	12/23 — 02/25 Paris, France
Lycée Saint Louis, *Tutor for freshmen students* Tutoring in Mathematics, Physics and Python classes	2023 Paris, France

⟨⟩ CUSTOM

Languages - Proficiency
French - Native, English - Fluent

Software
Git, Unity, Adobe Suite, Fusion 360, Microsoft Office

Programming Language
Python, C#, Javascript, C++

Libraries
OpenCV, Numpy, Pandas, TensorFlow, MatplotLib, PIL

🔧 INTERESTS

-- Windsurf | Computer science | Robotics | Trumpet --