

# Final Year Engineering Internship

Available starting February 2027 (6 months)

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📁 Portfolio : rayanchennaoui.online | Paris, France



Rayan CHENNAOUI

Aeronautical engineering student at **IPSA**, specializing in structures and mechanics. With a strong focus on mechanical performance and precision, I am seeking a 6-month final year engineering internship to apply advanced design and analysis skills, contribute to complex aerospace projects, and launch my professional career.

## PROFESSIONAL EXPERIENCES / INTERNSHIPS

JUNE — SEPT  
2026



**Engineering Intern, AIR FRANCE INDUSTRIES - KLM, Paris, ORY Airport**

Collaborated with the Engineering team on the maintenance policy definition for new-generation engines (LEAP-1A) as well as legacy platforms (CFM56, GE90) within the AF-KLM fleet. Conducted end-to-end technical, economic, and industrial impact analyses of OEM Service Bulletins (SB) to ensure fleet reliability and regulatory compliance. Streamlined data reporting and maintenance processes by applying digital analysis methodologies, gaining a transverse understanding of the MRO ecosystem.

SUMMERS FROM  
2022 TO 2025

**Seasonal Employee, LEGO & DECATHLON & FRANPRIX, Paris** — Customer service, checkout operations, logistics management, operational rigor in a high-traffic environment.

MAY 2022 —  
PRESENT

**Self-Employed, RCB CORP, Paris** — Online product sales. Document translation (EN-G/FR). Script writing for the YouTube channel *Tesla France*. Short film production. Math-/physics tutoring for middle school students. Creation of an app and website for assessing mental health, generating reports, and finding potential solutions.

OCT 2018 —  
SEPT 2022

**Association President, BEHARD eSPORT, Paris** — Management of a 40-member team: structuring of a clothing brand and live streaming channel, communication/marketing management, partnerships (brands, animal shelters...) and professionalization. Coaching players at European level. Team product sales.

## EDUCATION

SEPT 2025 —  
FEB 2026

**Mechanical Engineering, UNIVERSITY OF TECHNOLOGY MALAYSIA (UTM), Malaysia**  
*Flight dynamics & control, Materials eng., Surface eng., Hydraulics...*

SEPT 2022 —  
JUNE 2027

**Aeronautical Engineering, POLYTECHNIC INSTITUTE OF ADVANCED SCIENCES (IPSA), Paris**  
**Major:** CAE (Computer-Aided Engineering), Mechanical Engineering  
**Main courses:** *Strength of Materials, General Mechanics, Computational Fluid Dynamics (CFD), Finite Element Method (FEM), Composite Materials, CAD...*

SEPT 2019 —  
JUNE 2022

**Scientific Baccalaureate, GUILLAUME APOLLINAIRE HIGH SCHOOL, Thiais**  
— **Specialization:** *Mathematics & Advanced Math, physics-chemistry, eng. sciences.*  
— **Activities:** *Creation of ecological association, English speaking club, archery...*

## TECHNICAL PROJECTS (MORE AVAILABLE ON PORTFOLIO)

**Mirage 2000 Wing Design & NACA 0012 Airfoil Study (CATIA, STARCCM+)** — Design and 3D modeling of a Mirage 2000 wing profile. Integration of internal structural components and optimization for aerodynamic constraints. Simulated airflow over a NACA 0012 airfoil. Validation of CFD results with wind tunnel experiment.

**UAV Stability & Flight Control Analysis (Matlab, XFLR5)** — Modeling and extraction of stability derivatives. Implementation of State-Space matrices and design of a State Feedback controller to stabilize flight.

**Autonomous GoPiGo Robot (Python)** — Design of a robot capable of calculating the area of a closed surface with a 0.1% uncertainty. Implementation of statistical filtering and sensor data analysis.

**Physics-Informed Neural Networks for F1 Braking (Python)** - Developing an FEA/Deep Learning approach to model thermomechanical disc distortion. Aiming for real-time prediction of F1 braking distance. (*Ongoing*)

**NeuralODE & SpaceX Rocket Landing Sim.** — Research on optimal control for complex nonlinear systems. Implementing NeuralODE for continuous-time neural network modeling and numerical solving. (*Ongoing*)

## SKILLS — LANGUAGES — INTERESTS

SOFT SKILLS

Teamwork, Communication, Problem solving, Adaptability, Time management

SKILLS

CATIA, Patran, StarCCM+, AMESim, Abaqus, Matlab Simulink, Python, L<sup>A</sup>T<sub>E</sub>X, Comsol, Power BI...

CERTIFICATES

BIA, PIX, Climate & Aeronautics Fresk Animator, Stanford CS229 (in progress)

LANGUAGES

**French (Native), English (975/990 TOEIC), Arabic, Spanish (B1/B2), Chinese (Learning)**

INTERESTS

Cinema, mountain climbing & hiking, cycling & running, motorsports, aerospace...