

Yassmine CHAHAFI

State Engineering Student in Mechanical Engineering, seeking a Final Study Project Internship (PFE) starting February 2026

 Yassmine Chahafi |  +212 6 23 44 71 02 |  chahafiy@gmail.com |  International mobility |  License B



PROFILE

State Mechanical Engineer (in training), I am seeking a **Final Year Project internship starting February 2026**. I have a **360° perspective of the industrial sector, from engineering to industrial management**. I combine technical rigor with creativity to turn challenges into opportunities. My goal is to apply my analytical mindset to contribute meaningfully to a concrete project.

EDUCATION

State Engineer Degree in Mechanical Engineering	2021–2026
National School of Applied Sciences of Agadir (ENSA)	
International Baccalaureate in Physical Sciences - with Honors -	2020–2021
Qualifying High School	

PROFESSIONAL EXPERIENCE

SAFRAN ENGINEERING SERVICES July-August/2025

Internship, **Aeronautical Design Office Engineer** Rabat
Project : **Optimization of the FAI (First Article Inspection) Process**

- Developed a **Global FAI Guide** for **Safran UK** and an **inspection checklist** to ensure process reliability in this critical aerospace activity;
- Conducted missions in the Mechanical Departments : **Development, Reliability, and Part Master** ;
- Produced **flattening layouts** of electrical harnesses using **EHF & EHI** libraries in **CATIA V5**.

SEGULA TECHNOLOGIES February–June/2025

Internship, **Automotive Design Office Engineer** Agadir
Project : **Design of a protective housing for EV batteries under side crash loading**

- Designed two alternative solutions; one existing BIW design (ALPHA) with material modification, and another inspired by a **Honeycomb Sandwich Structure** ;
- Selected **Carbon Composites** to optimize the strength-to-weight ratio ;
- Performed **Crash Test Simulations** and analyzed structural performance ;
- Built functional **3D-printed prototypes** for testing and validation.

STELLANTIS July-August/2024

Internship, **Production Process & Quality Engineer** Kénitra
Project : **Analysis and Resolution of Water Leakage Defects on AMI Vehicles at Stations ST40,40'**

- Gained comprehensive knowledge of the **production process** for **Peugeot 208 and AMI** models ;
- Conducted leakage defect analysis following the **DMAIC** methodology using **quality tools** and on-site inspections ;
- Collaborated with **project leaders** to implement **corrective actions**.

YAZAKI July-August/2023

Internship, **Industrial Product Design & Maintenance Engineer** Kénitra
Project : **Design of a “Sliding System” to optimize production time.**

- Designed the guiding system using **CATIA Surface Modeling**, reducing **cycle time by 40%** ;
- Managed **preventive and corrective maintenance** of automotive wiring equipment.

ACADEMIC PROJECTS

- Developed a **Robotic Arm** for fire prevention during a **Robotics Hackathon**.
- Designed a reinforced battery protection structure inspired by **Honeycomb Sandwich** geometry, built using **3D printing**.
- Modeled and simulated an **Aircraft Fuselage Structure** as part of the **Skill Up** competition.
- Converted a **manual bicycle** into an **electric bike** including **3D modeling** and prototype fabrication.
- Designed a **Line-Follower Robot** using an **ESP32 camera** for autonomous navigation in a **robotics competition**.

CERTIFICATIONS

CAPM PMI
Certified Associate in Project Management

TECHNICAL SKILLS

- CAD & CAE Softwares**
 - CATIA V5
 - SolidWorks
 - AutoCAD
 - Abaqus
 - ANSYS
 - ANSA
 - RADIOSS
 - LS-DYNA
 - Fusion 360
 - CES Granta Edupack
- Programming & Office Tools**
 - Python
 - C
 - MATLAB
 - SQL
 - VBA
 - LaTeX
 - HTML/CSS
 - Office 365
 - Adobe Suite
 - Google Workspace
- Automation & Control**
 - Grafcet
 - Gemma
 - Arduino
 - Raspberry Pi
 - PID Control
 - LADDER Language
 - G Code

- Mechanics & Materials**
Modeling & Design • Numerical Simulation • FEM • RDM • Fatigue • Strength of Materials • Material Selection • MMC
- Industrial Engineering**
Maintenance • Quality • Project Management • Lean & Six Sigma • PLM/ERP • Agile/Scrum • Continuous Improvement • Logistics

EXTRACURRICULAR ACTIVITIES

-  **Mechanical Club**
Coordinator of Industrial Visits & Webinars and Seminars
-  **Robotics Club**
Event Manager & **Participant** in national robotics competitions
-  **Social Club**
Volunteer involved in humanitarian projects : **aid caravans and infrastructure renovation** for disadvantaged communities

LANGUAGES

French	Bilingual
English	Fluent
Spanish	Basic
Arabic	Native

PERSONAL INTERESTS

- Licensed **Tennis Player** at FRMT
- Guitarist
- Amateur Writer