

# Yassmine CHAHAFI

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

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### 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