

# MATHIS JEGOU

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## PROFILE

Mechatronics engineering student with hands-on experience in mechanical design (SolidWorks), embedded systems (STM32, Arduino) and rapid prototyping (3D printing). Available for an engineering internship starting mid-June 2026. Eligible for US internships (J-1 Internship Visa).

## EDUCATION

<b>Master's Degree in Mechatronics Engineering</b> , ENSIBS Lorient	<i>Expected Graduation: 2028</i>
Relevant Coursework: Embedded Systems, Programming, CAD, Sensors & Actuators, Robotics.	
<b>Technical Degree in Mechanical and Production Engineering</b> , University of Rennes	2024 – 2025
Relevant Coursework: Mechanical Design, Finite Element Analysis, Materials Science, Prototyping	
<b>Pre-engineering undergraduate studies</b> , Lycée Auguste Brizeux, France	2022 – 2024
<b>Baccalauréat - Science (Math &amp; Physics)</b> , Lycée Saint-Gabriel, France	2021

## PROJECTS

**Awake Challenge – French National Autonomous Vehicle Competition:** Designed and built a 1:10 scale autonomous vehicle in a six-person team. Designed the vehicle chassis and sensor supports in SolidWorks.

**Systems Engineering:** Led a 5-person team to develop a carbon-neutral urban delivery system. Managed project planning, stakeholder requirements and performed functional analysis.

**STM32 Mobile Robot:** Implemented sensor-based obstacle detection, steering control and autonomous line-following algorithms on an STM32 platform.

**4-Axis Robot Arm:** Designed one axis of a 4-axis robot arm prototype in TopSolid for a restaurant application. Manufactured components using sheet metal fabrication, lathe turning and 3D printing.

**Overhead Crane:** Performed FEA using RDM7 to validate structural performance. Sized mechanical components and designed the system in TopSolid.

## WORK EXPERIENCE

<b>Mechanical Design Intern</b>	Jan 2025 – Mar 2025
Serma Inox - Designer and manufacturer of stainless steel process equipment	<i>France</i>
● Automated BOM extractions from SolidWorks using MyCADtools and processed data through VBA scripts in Excel, which reduced BOM preparation time by 90%.	
● Designed mechanical assemblies in SolidWorks for food processing equipment.	
● Created installation guides and user documentation for the automated BOM system, which improved usability for staff.	

<b>Seasonal Work</b>	Jun 2022 – Aug 2022
E.Leclerc - French grocery store chain	<i>France</i>

- Managed restocking and inventory organization while providing customer service in a hypermarket.

## SKILLS

**Technical Skills:** CAD (SolidWorks, TopSolid), Programming (Python, C), FEA (RDM 7), Embedded Systems (STM32, Arduino), Prototyping (3D printing)

**Soft Skills:** Leadership, Project Management, Problem Solving, Critical Thinking

**Languages:** English (Advanced), French (Native)