

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

Master's Degree in Mechatronics Engineering, ENSIBS Lorient *Expected Graduation: 2028*
Relevant Coursework: Embedded Systems, Programming, CAD, Sensors & Actuators, Robotics.

Technical Degree in Mechanical and Production Engineering, University of Rennes 2024 – 2025
Relevant Coursework: Mechanical Design, Finite Element Analysis, Materials Science, Prototyping

Pre-engineering undergraduate studies, Lycée Auguste Brizeux, France 2022 – 2024

Baccalauréat - Science (Math & Physics), 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

Mechanical Design Intern Jan 2025 – Mar 2025
Serma Inox - Designer and manufacturer of stainless steel process equipment *France*

- 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.

Seasonal Work Jun 2022 – Aug 2022
E.Leclerc - French grocery store chain *France*

- 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)