

Noé Tardy

AI APPLIED TO ENGINEERING | ROBOTICS | CONTROL | SYSTEMS

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Scan for portfolio

MSc AI student at CentraleSupélec and mechatronics engineer with systems engineering experience at Thales Avionics. Seeking a 5- to 6-month internship from May 2027 applying AI to robotics, control or other engineering systems.

THALES SYSTEMS ENGINEERING EXPERIENCE

Systems Engineer Apr-Jun 2026

SII Consulting - assignment at Thales AVS France, Moirans

- Supported system modeling, DDQS activities and CE-marking preparation for airport security scanners.

Systems Engineer Nov 2025-Apr 2026

Thales AVS France SAS, Vélizy-Villacoublay

- Created physical and functional MBSE models and maintained system requirements for airport security scanners.

Apprentice Systems Engineer Sep 2024-Sep 2025

Thales AVS France SAS, Vélizy-Villacoublay

- Developed architecture and use-case models plus Python extensions for internal engineering tools.

AI AND ROBOTICS EXPERIENCE

Independent AI Engineer Oct-Nov 2025 (+ April 2025)

FR4IAV - Abu Dhabi Autonomous Racing League

- Trained autonomous-racing agents in simulation using Unity ML-Agents and Stable-Baselines3 (PPO, A2C); developed Python and ROS components.

Mechanical Design & Software Engineering Intern Apr-Sep 2024

IRSEEM / ESIGELEC, Rouen

- Designed and built a three-axis cable-driven ball-balancing platform from scratch: CAD, fabrication, integration and closed-loop control.
- Used Unity ML-Agents to train a controller in simulation.

EDUCATION

MSc in Artificial Intelligence Expected Dec 2027

CentraleSupélec, Paris-Saclay, France

Machine learning, deep learning, optimization, decision modelling, computer vision and reinforcement learning.

Engineering Degree - Mechatronics 2022-2025

ESIGELEC, Rouen, France

ECAM Brussels exchange (2023-2024): PCB design, IoT, robotics and embedded programming.

TECHNICAL SKILLS

AI and control: Unity ML-Agents; Stable-Baselines3 (PPO, A2C); reinforcement learning; closed-loop control; sensor fusion; SLAM

Software and systems: Python; ROS; MBSE; systems architecture; CAD; embedded systems; PCB design

ENGINEERING CHALLENGES

NAE Mission Drone Challenge - competition winner. Designed and built an autonomous drone under competition constraints.

EasyEDA Spark 2026 Challenge - in progress. Designed and prototyped a flexible GPS pet tracker and LoRa receiver.

LANGUAGES

French: Native | English: C1 (TOEIC 955/990)