

# MAXIME ROBIN

Currently seeking a 6-month internship for the summer session.

## EDUCATION PROFILE

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### Dual Degree - Master's in Computer Science, specialization in Artificial Intelligence

*University of Sherbrooke, Sherbrooke, Canada | 2025 - 2026*

### General Engineering Degree - Embedded Systems

### Equivalent to a Master's degree in Canada

*ESEO, Paris, France | 2023 - 2026*

### Erasmus Semester - Computer Science

*Transport and Telecommunication Institute (TSI), Riga, Latvia | February 2023 - July 2023*

### Preparatory Classes for Engineering Schools (CPGE)

### Integrated Preparatory Program

*ESEO, Paris | 2021 - 2023*

### French Baccalaureate - Mathematics, Biology, Physics

*Lycée Louis Bascan, Rambouillet, France | 2018 - 2021*

## PROFESSIONAL EXPERIENCE

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### Automation Internship

*Othua (Stellantis), Trnava, Slovakia | July 2024 - December 2024*

Contributed to the modernization of automotive production lines (Citroën C3, Opel Frontera).

Programmed and troubleshooted industrial robots, PLCs, and HMIs using TIA Portal and STEP7.

Participated in the transition toward mixed ICE/BEV production.

### Technical Internship - Geometry and Assembly

*Stellantis, Trnava, Slovakia | July 2023 - September 2023*

Participated in the adjustment and optimization of assemblies and analyzed measurement reports.

Prepared weekly KPI reports to monitor production.

### Factory Work - Electrical Vehicle Inspection

*Stellantis (PSA Group), Poissy, France | July 2022 - August 2022*

Inspected and tested electric vehicles on the production line (DS3 E-TENSE, OPEL Mokka).

## ACADEMIC PROJECTS

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### ProSe Project - Intrusion Detection System (AEGIS)

*ESEO | 2024 - 2025*

Designed and developed, within a team of eight, a system integrating Raspberry Pi, IP cameras, and an Android app for secure video capture and monitoring.

Roles within the team: project manager, quality manager, developer.

### Project - UART Connection System

*ESEO | 2024*

Implemented several STM32-connected sensors using SSH with a Raspberry Pi board communicating via the UART protocol.

## **Project - Autonomous Robot Control**

ESEO | 2024

Developed, in a team of two, a robot control application in C communicating with a Java simulator.

Programmed various movement modes (predefined paths, wall-following) with multitasking management (pthread).

Integrated the MRPiZ library and the Intox MrPizz simulator for virtual robot communication.

## **Project - Website with Access Rights Management**

ESEO | 2023

Developed a dynamic website combining HTML/CSS/JavaScript for the front-end and an SQL database for the back-end.

Implemented a three-level access rights management system: Administrator (full access), Employee (limited access), and Visitor.

Set up secure login/password authentication and an adaptive interface according to user roles.

## **Project - Car Dashboard**

ESEO | Semester 4 2022

Developed, in a team of two, a car dashboard on STM32 including sensors and a custom electronic board.

## **Project - 100% Autonomous Sailboat**

ESEO | Semester 3 2022

Developed, in a team of four, an autonomous sailboat integrating sensors and embedded control (Arduino), including algorithm defense.

## **Arduino Project - Touch Unlock Latch**

ESEO | Semester 2 2021

Designed and programmed, in pairs, an Arduino latch with a technical presentation.

## **SKILLS**

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### **Programming:**

Python, C, C++, Java, Android, HTML/CSS/JavaScript, SQL, Arduino, Raspberry Pi, STM32, Git, UML, CATIA.

### **Industrial Automation:**

Siemens TIA Portal, STEP7.

### **Fields:**

Embedded systems, artificial intelligence, deep learning, web development, electronics.

## **LANGUAGES & INTERESTS**

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### **Languages:**

French (native), English (TOEIC 825), Spanish (intermediate).

### **Interests:**

Swimming, Formula 1, travel (Latvia, Slovakia, Canada, Europe, America, etc.).