

# Igor GIRARD–KHADIR

+33 6 37 24 37 82 | [igor.girardkhadir1@gmail.com](mailto:igor.girardkhadir1@gmail.com) | [linkedin](#) | [My portfolio](#)

## EDUCATION

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### Sorbonne University

Sep. 2023 – Sep. 2028

*CMI Mechanical Engineering, 5 years intensive curriculum with 6 extra credits per semester*

*Paris, France*

- 3rd year of B.Sc Mechanical Engineering
- Going to specialize in M.Sc Robotics

### Jules Guesdes High School

Sep. 2020 – July 2023

*Speciality in Maths and Physics. Bonus classes in Maths and Japanese*

*Montpellier, France*

## EXPERIENCE

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### Student Research Intern

Oct. 2025 – Dec. 2025

*ISIR (Institut des Systèmes Intelligents et de Robotique) – Robotics Lab @Sorbonne University*

*Paris, France*

- The internship focused on the study and control of a planar 3RRR parallel robot and the avoidance of the singularities
- Draw the geometric modeling and determined the inverse kinematics equations
- Discovered the software Dynamixel Wizard 2.0
- Created a python simulator to validate the kinematic model and the singularities

### Software Engineer Intern

July 2024 – Aug. 2024

*A.D.SION Info Santé*

*Montpellier, France*

- Developed a news management and publishing software in Python
- Allowed full management of the article database for certain users, depending on status inside the entreprise
- Used graphical libraries such as tkinter and ttkbootstrap
- Strengthened my knowledge of SQL (PostgreSQL) as well as HTML and XML, while also discovering DBeaver
- Discovered how LDAP and FTP servers work and learned to use LdapAdmin and WinSCP

## PROJECTS

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### SonaRov 2025 | Arduino, C++, Ultrasonic sensors, UML Diagram

Jan. 2025 – June 2025

- The SonaRov project is a project in which we had to design an autonomous underwater robot
- Designed an UML Diagram for the autonomous planning
- Implemented the algorithm inside an arduino board
- Applied the electronics on a concrete project

## TECHNICAL SKILLS

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**Languages:** Python, C/C++ (basics), SQL (PostgreSQL), HTML/CSS

**Software Tools:** GitHub, DBeaver, VS Code, CATIA

**Operating Systems:** Linux (Xubuntu, Arch and Debian-based distribution), Windows

**Libraries:** pandas, NumPy, Matplotlib, tkinter

## LANGUAGES

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**French :** Native

**English :** Proficient - C1

**Chinese :** Elementary proficiency - HSK2

**Japanese :** Basics - A1

**Arabic :** Second mother tongue - B2