



ERWAN MARTIN

ROBOTICS RESEARCH ENGINEER

REFERENCES :

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🌐 : <https://github.com/R1leMargoulin>

🌐 : <https://www.linkedin.com/in/erwan-martin-76b931199/>

SKILLS

PROGRAMMING

- C/C++/C#
- Python
- WEB : HTML/CSS/PHP/JS

ROBOTICS

- ROS/ROS2
- Electronics/Mechanical basics
- Scheduling

AI

- Machine learning (sklearn)
- Deep Learning (Tensorflow, Pytorch)
- Deep Reinforcement Learning

LANGUAGES

- French : Native Language
- English : C1 (TOEIC 960/990)

SOFT SKILLS

- Adaptability
- Team Working
- Autonomous

OTHER

- Multi-Agent Systems
- OPC UA
- MQTT
- UML/SysML
- Databases(SQL/NoSQL)
- Networking

PROFESSIONAL EXPERIENCES:

2024-2027 : PHD THESIS AT CRISTAL LABORATORY

3 years

Intelligent and adaptive collective behavior for a fleet of aero-terrestrial robots.

2023 : UNIVERSITY OF LOUISIANA AT LAFAYETTE, USA -

ROBOTICS RESEARCH INTERNSHIP

3.5 Months

- Bringing an omni-directional robot to ROS2, implementing imu sensor, control and made a Gazebo simulation for the robot.
- Worked with a raven II surgery robot, implementing cameras, sensors and made an interface in order to have a realtime view for the surgeon

2021-2024 : CESI, FRANCE - ROBOTICS RESEARCH ENGINEER

(APPRENTICESHIP FOR COMPUTER SCIENCES ENGINEERING DEGREE)

3 years

- Multi kind robot scheduling with:
 - OPC-UA protocol, PTZ cameras (hikvision) for perception,
 - Boston Dynamics: SPOT, MIR100, Tiago++, Universal Robots (UR5/10)
- ROS/ROS2 resources consumption benchmark with an Open Manipulator X robot.
- DEFI&CO project: 6 Niryo NED Programmation, coordination, networking in order to make a production line.

2021: CESI, FRANCE - ROBOTICS RESEARCH INTERNSHIP

4 Months

with those robots:

- Turtlebot - Waffle pi
- Robotnik - Summit XL

The aim was to make the robots autonomous, connected to the same database, and coordinate them in a second step

2016: UBISOFT, FRANCE - OBSERVATION INTERNSHIP

1 Week

EDUCATION:

CRISTAL/UNIVERSITY OF LILLE - PHD COURSE

2024 - 2027 -> *Intelligent and adaptive collective behavior for a fleet of aero-terrestrial robots.*

CESI - ENGINEERING SCHOOL

2019 - 2024 -> *Computer Sciences Engineering Degree*

-Sandwich course during 3years (2021-2024)

Software Development | Networking | Web development | on-board electronics | Data/Big data | Engineering | AI | Project management

LYCÉE GUILLAUME LE CONQUÉRANT, LILLEBONNE

2019 -> *Baccalauréat S*

- "Mention bien" - Latin option

HOBBIES:

SPORTS

Badminton (10 Years) | Kenjutsu (5 years) | Diabolo (self-learning) | Swimming (4years) | Soccer(3years) | Longboard self-learning (recently)

CESI EXPERIMENTAL ROBOTICS'S PRESIDENT

President of a student association that is making robots and electronics (Instagram: @cesi_experimental-robotics)

MUSIC

Listening | Guitare (4years)