LOAN BERNAT

— https://loanbrnt.github.io

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Currently preparing a Master's Degree in Engineering (Robotics and Interactive System) with a background in research and development in Artificial Intelligence, Robotics and Simulating. Selftaught, curious, motivated and having a very high learning and adaptation capacity.

Looking for a thesis to start in September 2024 around the use of Machine Learning in Video Games. Possibility to do a 6-months internship before the start of the thesis.

EDUCATION

With honors

Master's Degree in Engineering

2021 - 2024

Paul Sabatier University 3 - UPSSITECH, Toulouse, France

- · Robotics and Interactive System. Major in Artificial Intelligence
- Preparatory course to prepare for Engineering School 2019 2021 Paul Sabatier University 3, Toulouse, France
 - Major in Maths and Informatics
- BACCALAUREAT: Major in Engineering Science Saint Joseph, Toulouse, France

2019

PERSONAL PROJECTS

Machine learning for studying animal behaviour with Unreal Engine 5

Calculator by drawing recognition

Multiplayer Game development

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PROFESSIONNAL EXPERIENCE

- APRIL 2023 JULY 2023 Research & Development Intern: Conception of a University of Ostfalia, Wolfenbüttel, Germany complex robotic task with SAWYER Robot
 - Was in charge of the development of a bartender application using Node-Red, Docker, Flask, ROS and Tensorflow.
 - Implemented Computer Vision, Interaction with others robots (waiters) and Interaction with Human.
 - Designed a set of functions to create an environment for bachelor students to carry out practical work.
- Research & Development: 3D modelling and simulating of a tracked agricultural robot

SEPTEMBER 2022 - APRIL 2023 Agreenculture, Toulouse, France

- Responsible for creating and modelling a 3D physical model of the robot with Unreal Engine 5.1 and Blender.
- Created a 3D-simulation environment for testing news algorithms without having to be in the field.
- Participated in the creation of an interface enabling Agreenculture to test their own control and artificial. intelligence algorithms on the robot.
- Association job: President of students' association

MARS 2022 - MARS 2023

UPSSITECH, Toulouse, France

- Was in charge of 27 volunteers as well as the image of the student life at UPSSITECH (400+ students).
- Responsible of meetings organisation, budget management, oral presentation, global management.

PROFESSIONAL SKILLS

LANGUAGE French (Native)

Programmation in Python, C, C++, Java and Matlab Git, Tensorflow, Socket.io, Flask, Gym

English Intermediate - B2 TOEIC

Unreal Engine Machine / Deep / Reinforcement Learning

Robot control and motion planning

Image / Signal processing and detection

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