Pierre POTEL

Engineering student at ENSTA Paris

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My portfolio
My Linkedin

Assets

· Creative
· Curious
· Maker
· Autonomous

Spoken languages

French
English
Spanish
Japanese

· TOEIC Listening and Reading 980/990

Skills

Computer languages
Python, C++, C#, C, Java, Arduino, Matlab, SQL.

Softwares
Unity, SolidWorks, Premiere Pro, Photoshop, Illustrator, Microsoft Office.

Looking for 4-5 months internship in robotics starting in April.

Education

2019-Now ENSTA Paris student (Top French engineering school)
Master's Degree in Computer Science, minor in AI and robotics.
Relevant courses : Software Engineering and Object-Oriented Programming, Parallel programming, New generation image sensors, Computational Geometry and Mathematical morphology, Neuro-computational models of vision, Machine Learning, Artificial Evolution.

2017-2019 Undergraduate studies at Saint-Louis High School, Paris
Two years of intensive training in Mathematics, Physics, Mechanical Engineering, Programming and Chemistry to prepare for nationwide competitive entry exams to engineering schools.

2014-2017 High school Diploma in Science with Honours,
At Van Dongen High School, located in the suburbs of Paris.

Work Experience

2021-2022 Autonomous exploration engineer, Parrot
6 months internship developing an autonomous exploration algorithm for a quadcopter drone. After doing bibliographic research on state of the art algorithms, the most promising solutions are being prototyped on Parrot's flight simulator and then implemented on real drones.

2021 Research Intern, University of Oslo RITMO lab
3 months research internship developing and implementing rhythm detection and generation on a swarm of musical robots. I designed a robot simulator in Unity to test my algorithms and these algorithms will then be implemented on physical hardware.

Projects

2020-2021 Drone display
Team project : Our main goal was to create a light show using a swarm of drones equiped with LEDs displaying 3d shapes in the night sky. I was the project manager in this team of 8 students and worked on trajectory planning and control of the drones.

2021 Semi supervised learning on CIFAR-10
Pytorch implementation of the Google Fixmatch algorithm to put labels on a set of images where most of the dataset is not annotated.

2020 SLAM and Kalman Filtering
Programmed a MATLAB simulation in which an exploring robot finds its location and simultaneously maps its environment by merging noisy data coming from multiple sensors.

2018-2019 Stabilizing walking using tail pendulum
Scientific project consisting in stabilizing a biped robot's gait using the inertia of a cybernetic tail. I designed an Arduino controlled prototype with custom made CAD parts.

Miscellaneous

Sport : volleyball, badminton
Hobbies : photo and video editing, mix, DIY, video games
Student activities : (2019-2021) DJ at SONO, ENSTA's student association of DJs.