Rayane GETA

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Skills .

Coding Languages C/C++, JAVA, Python, Javascript, Matlab AI Frameworks Pytorch, Tensorflow, Jetson Inference Control System Matlab, Simulink, Amesim, CoppeliaSim Mechanical Design Solidworks, Catia, 3DExperience

DevOps Git, Docker, Google Colab Languages English, French, Spanish. Soft Skills Teamwork, Self-Learning, Critical Thinking, Problem Solving, Communication Skills.

Education

ENSTA (National Institute of Advanced Technologies of Brittany), Master of Science

• Relevant Coursework: Software Engineering, Deep Learning, Machine Learning, Computer Vision, Radar and Remote Sensing.

Brest, France August 2023 - Present

ENSIL-ENSCI (National Graduate Engineering School of Limoges), Master of Science

• Relevant Coursework: Control Systems, Robotics, Mechanical Design.

Limoges, France September 2021 - Present

Experience _____

Aerix Systems, Embedded System Engineer Intern

- Developed monocular visual odometry for an omnidirectional drone in C++.
- Integrated a neural network for 3D vision and odometry enhancement.
- Designed multi-threaded real-time software architecture with SOLID principles.

Bordeaux, France April 2024 - August 2024

CRITT Automatisation & Robotique, Mechatronic Engineer Intern

- Developed HMI software and programmed PLCs using Siemens TIA Portal.
- Designed, machined and assembled mechanical parts for industrial machines.

Albi, France May 2023 - August 2023

Main Projects __

National Student Entrepreneur (SNEE)

- Developing an application catering to dancers and choreographers' needs.
- Recognized by Pepite Bretagne for my entrepreneurial initiative.
- · Gained access to resources, mentoring, and networks to support project development.

Pan-Tilt Tracker

- Created a motorized smartphone holder with auto-tracking for capturing my dance sessions.
- Developed the Android app for video capture and tracking. Designed and assembled 3D-printed parts.

Multicam

- Deployed a multi-camera system for people tracking and monitoring using YOLO.
- Programmed C++ firmware for ESP32-Cam and implemented network management for seamless operation.

Vehicle simulator game

- Developed a vehicle simulator game using Unity, with custom drivetrain and wheel physics simulations.
- Implemented classic AI algorithms for virtual opponents, leveraging geometry-based methods.

Additional projects and informations can be found in my portfolio: rayane-maker.github.io

Hobbies and Activities

- Hip Hop Dance (2015 Present, Public performances, Styles: Animation, Popping, Krump)
- Shell Eco-marathon (2022, Main Pilot, Location: Assen, Netherlands)
- Weight Training (2022 Present)