Erwan AMRAOUI

Address : 36 rue Joseph Hénot, Metz 57070, France
Mail : er.amraoui@gmail.com Mobile : +33(0)626510700

Education and qualifications

2021 -	**Diplôme d'Ingénieur – Observation systems and Artificial Intelligence**	
2018 – 2021	**ENSTA Bretagne, Brest, France**	Graduate and Post-Graduate Engineering School and Research Institute (www.ensta-bretagne.eu)
	First year courses –	*Computer Science, Mechanics, Electronics, Mathematics, Economics, Languages*
	Second and Third year specialization –	**Observation Systems and Artificial Intelligence** Relevant courses: *Kalman filter localization, Telecommunication, Signal and Image Processing Operational research, Optimization, Machine learning…*
2016 – 2018	Lycée Fabert, Metz, France	Two-year intensive post-secondary school preparation in advanced Mathematics and Physics for the competitive entrance examinations to French Graduate Engineering Schools
2016 –	Lycée Fabert, Metz, France	Scientific Baccalauréat obtained with distinction

Professional Experience

2021 –	**Final year study Project – Internship at INVR.space GmbH (Berlin, Allemagne)** **AI based generation of Interactive Volumetric Assets** Pose estimation from multiple RGB cameras. In real-time mesh reconstruction using multiple RGB-D cameras.
2020 –	**Project** – Indoor Layout Estimation using a 3D camera – conception of demonstrator to rebuild an indoor environment filmed using a ZED 3D camera – (https://www.stereolabs.com) **Two-month internship as an Engineering assistant** – Study on Autofocus and Quality Index
2019 –	**Team Project** - Establishing the QClub (Quantum information science club of ENSTA-Bretagne): Learning quantum algorithms (Grover, Shor, Deutsch-Jozsa…), designing and introducing courses on quantum information science for students and quantum computing languages. **Four-week internship** as an assistant operator in the research centre LabSTICC ENSTA-Bretagne (https://www.labsticc.fr)
2018 –	**Shell Eco Marathon** – Team Leader of the layout and electrical circuits team, member of the sensor and data storage team **Project** – Analysis of Wavefront sensors in astronomy

IT skills

Working environments –	Windows, Linux
Language –	Confident in Python, C# C++, C , Arduino, Matlab, Java, Q#

Tensorflow (keras API) and OpenCV (Python)
CUDA (C)
Unity
Proficient in Microsoft Office
Android Studio, Beginner in V-Rep, and Rhapsody
Gimp, Paint.net, Inkscape, Beginner in Blender

Language Skills

French	MotherTongue
English	Fluent in spoken and written English, Competent in writing reports and giving oral presentations
German	Beginner
Chinese	Beginner