



Paul-Élie Pipelin

Engineer in digital imaging, 23 y.o., Car license

EXPERIENCES

- March 2020 – **Programming internship**, ANSYS OPTIS, Toulon.
August 2020 Work on a plugin to integrate physically realistic and parametrizable BSDFs. Automation of tests for physic validation, integration of default samplers and adding of new materials.
- October 2019 **Industrial project, Implementation of an Optimal Multiple Importance Sampling (OptiMIS) for Bidirectional Light Transport Simulation**, ESIR, CORONA RENDERER, Rennes.
– February 2020
- June – **Research internship in Indoor Localization**, LIMU - KYUSHU UNIVERSITY, Fukuoka, Japon.
August 2019 Implementation of an **indoor localization** framework based on bluetooth beacons (BLE) and map constraint.
(~3 mois)
 - Multilateration, Weighted centroid localization
 - Deep learning
 - Signal processing, Particle filtering**First prize** in IPIN's 2019 competition (Track 5). (Indoor localization conference)
- June – **Programming internship in projects using various web technologies**, CAPGEMINI, Rennes.
August 2018
 - Implementation of functionalities in Angular, Spring, PostgreSQL, Webpack.
 - Conception of an online *wysiwyg* editor with inline comments.
(~3 months)
- November **First and Second prizes of the Insomni'hack Hackathon (~24h) organised by Epine with Capgemini**, ESIR - EPINE - CAPGEMINI.
2017 & 2018
- May – August **Internship in a research laboratory**, MEDICIS - LTSI - INSERM.
2016
 - Installation of a VR environment for medical staff.
 - Discovery of the functioning of research and relations between laboratories.
(~3 months)

EDUCATION AND CERTIFICATION

- 2017 – 2020 **Engineering Cycle at ESIR in Digital Imaging**, ÉCOLE SUPÉRIEURE D'INGÉNIEURS DE RENNES, Rennes.
 - Image: **Image Synthesis**, *Mathematics for images*, **Advanced Image Processing**, *Human Machine Interface, Classification, Special Effects, Compression*
 - Humanities: *Communication, fluent English, Management, Innovation*
- April – **Handimanager certified**, COMPANIEROS ASSOCIATION.
October 2018 Involvement and organization of a crowdfunding financed project to teach the management of disabled persons to engineering students.

TOOLS FOR COMPUTER SCIENCE

- Languages **C++**, **Python**, Java, Scala, SQL, Web (front / back)
Technologies **OpenCV**, OpenGL, **Unity**, Matlab, Spring, Angular
Systems Windows, GNU/Linux
Others Adobe Suite, Office Suite, Git, SVN, L^AT_EX

HOBBIES

Sciences, New technologies, Photography, Music, Cinema, Video games, Sport