Tanguy Perron

+33.6.26.49.88.95 | tanguy.perron19@imperial.ac.uk | linkedin.com/in/tanguy-perron | github.com/tlp19

EDUCATION

Imperial College London
London, UK

Master of Engineering in Electronic and Information Engineering — *Oct. 2019 – Today*

- Currently in my third year.
- Main modules studied: Artificial Intelligence, Machine Learning, Computer Vision, High Level Programming, Operations Research, Robotics, Embedded Systems, Information Processing, Software Systems, Communications, Control Systems, Digital Electronics and Computer Architecture.
- Optional modules undertook: Designing Interventions for Behavioural Change, Creative Digital Platforms and Introduction to Psychology.

Lycée Blaise Pascal
Orsay, FR

French Scientific Baccalaureat with Further Maths - Highest Honours — *Sep. 2016 – July 2019*

- Achieved a score of 19.55/20 overall.
- Optional modules undertook: Spanish and Latin.

EXPERIENCE

Full-stack and Cloud Developer Intern
2 months · Jul. 2021 - Sep. 2021

UniVerse — *Remote*

- Served as a Full Stack and Cloud Developer to build an application for Android, iOS and Web.
- Worked on both front and back-end components of the app, as well as on the design of the databases and DevOps.
- Programmed in Dart using the Flutter framework, with integration of Google Firebase services.
- Researched and produced reports on technologies that the company wished to adopt.
- Worked under the guidance of the company's CTO and also independently, relying on both my communication and team-working skills, as well as my autonomy.

Multi-skilled Crew Member
4 weeks · Aug. 2020 - Sep. 2020

McDonald's — *Les Ulis, FR*

- Challenged my team working skills and communication to achieve high-efficiency standards (e.g. following instructions, preparing products, assembling orders and helping customers).

Summer Student
2 weeks · July 2018

University of Cambridge — *Cambridge, UK*

- Took part in a course about emerging technologies (AR & VR, Data processing, Voice recognition, Artificial Intelligence, etc.). Wrote several essays and delivered team presentations.
- Developed my collaboration and communication skills, as well as my organization skills.

Summer Student
10 days · July 2016

University of Montpellier — *Montpellier, FR*

- Intense math training program to prepare the French Olympiads of Mathematics.
- Further improved both my mathematical knowledge and my logical reasoning skills.

Student Intern
School Year 2015-2016

Thales — *Plateau de Saclay, FR*

- Worked with a team of researchers on an algorithm designed to optimize the solar exposition and electrical power generation of the ISS' solar panels when the satellite rotates around the Earth.
- Allowed me to develop my problem-solving skills and to experience the work in a private company with a highly result-oriented approach.

Student Intern 1 week · Dec. 2015

Institut d'Astrophysique Spatiale *Université Paris-Sud, FR*

- Internship in the French Institute of Space Astrophysics that worked on the Philae lander that came along the Rosetta spacecraft.
- This experience in a public research environment taught me the importance of efficient teamwork in order to achieve challenging technical objectives.

PROJECTS

Mars Rover - *MEng Year 2 Project* | *C++, Arduino, ESP32 SoC* June 2021

- Programmed an ESP32 SoC in Arduino C++ to communicate with 3 sub-systems.
- Used the MQTT protocol to communicate with a Web-App over WiFi to control the rover.
- Handled communications using the UART Protocol to both an FPGA (computer vision) and an Arduino Nano board (motors).
- Designed custom instruction sets to decode and interpret all commands from all sub-systems.
- Implemented a custom obstacle-avoidance system triggered by external sensors.
- High team-working skills and excellent communication were required to successfully coordinate with my 5 coworkers.

Circuit Simulator - *MEng Year 1 Project* | *C++, MatLab, Git/GitHub* June 2020

- Developed a program in C++ to analyse complex electrical circuits (similarly to LTSpice).
- Coded the electrical behaviour of all supported components and used Matrix computation to solve for voltages and currents at each instant of the transient analysis.
- Used Git/GitHub to collaborate between team members.
- Plotted the results of our simulator using MatLab and wrote a detailed report of our project to record our organization and reasoning throughout the project.
- Accurate, efficient and creative coding, as well as high team-working skills and collaboration were required in order to deliver a complete product.

TECHNICAL SKILLS

Languages: English (bilingual), French (native), German, Spanish

Programming Languages: C/C++, Python, Dart, MatLab, SystemVerilog

Tools: Git/GitHub, Flutter, VSCode, AdobeXD, Quartus, LTSpice, 3D Printing, LaTeX, Office Suite

OTHER ACHIEVEMENTS AND INTERESTS

Licenses and certifications: Driving License, TOEFL

Participations in numerous national challenges: Kangaroo Challenge (Maths), "Animath" (Maths), "Concours Castor Informatique" (Programming), "Algoréa" (Programming).

Sports and Societies:

- Education Officer of the Imperial College French Society
- Running
- Rowing - as part of the Imperial Boat Club
- Sailing (every summer)

Other interests: Photography, Digital Design, Drawing and Painting.

References available upon request