CHRISTOPHE FOYER

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US and French citizenships | Eligible to work without restriction in the USA, UK, and EEA, and remotely

EDUCATION

University College London — London, United Kingdom
Master of Science - Scientific Computing - Distinction — 2019 – 2020

Washington University in Saint Louis — Saint Louis, USA
Bachelor of Science - Mechanical Engineering | Minor in Energy Engineering — 2014 – 2017

Study Abroad: *- RWTH Aachen, Germany (Summer 2017) – Energy & Mechatronics*
- School for International Training, Iceland (Summer 2015) – Energy

EXPERIENCE

MAUI 63 — Remote, New Zealand
Software Volunteer — 2021 - Present

- Developed OpenCV code for use with Darknet Yolov4 Deep Neural Networks, data post-processing

Temporary Works Design — London, United Kingdom
Design Engineer — 2018 – 2019

- Designed bespoke equipment and structures for offshore installation projects using Autodesk Inventor
- Calculated structural parameters using finite element analysis and manual calculations
- Coded stress calculation scripts in Python for standardization and workflow improvement software projects

Tata Steel Europe — IJmuiden, Netherlands
Engineering Intern – Simulation Software — 2018

- Designed and coded a large-scale thermal simulation in Python reducing temperature estimation error by 82.4%
- Released a real-time proof-of-concept now deployed in production following by a KPMG team business case analysis
- Organized a training session on collaborative code management (git) for the department

ACADEMIC PROJECTS

M.Sc. Thesis – B Spline 2D/3D image fitting — University College London
B-Spline Active Contours for the Segmentation of Vascular Structures — 2019 – 2020

- Produced coded a Python library for 2D and 3D Active contours/surfaces using B Splines/NURBS

B.S. Final Project – Low-Cost Concentrator Photovoltaics — Washington University in St. Louis
Water Lenses for Low-Cost Concentrator Photovoltaics — 2017

- Coded optics simulation software and thin membrane 2D FEA scripts in MATLAB for hypothesis verification
- Designed, built, and programmed a single-axis solar tracking apparatus using photosensors and Arduino.

Wash. U. Design/Build/Fly Competition Team — Washington University in St. Louis
Founder — 2016 – 2017

- Co-led the team to 12th place out of 138 teams at the AIAA DBF 2017 competition, with over 40 members today
- In charge of the systems sub-team to design and optimize aircraft internal systems through MATLAB simulations

OTHER PROJECTS & INVOLVEMENTS

Agricultural Robotics — Personal Project
ROS and SLAM server task offload test platform — 2020 - Present

Domaine Du Vivier Farm — Le Mesnil Mauger, France
Small business Linux system administrator — 2020 - Present

SKILLS

Programming	Python, MATLAB / Simulink, SQL, C++, Bash, JavaScript
Software	Git, SVN, Linux, ROS, Docker
Prototyping	Microcontrollers, CAD, FEA, CFD, 3D-printing, machining, composites
Languages	Native English and French (Bilingual) • Basic German and Icelandic