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 ⊕ Foussy

Foussy 25 years old

Christian Hiricoiu

Mechanical Aircraft Engineer

French – mother tongue English – fluent (TOEIC: 965) Deutsch – A2 Español – A2

Looking for opportunities in **scientific programming**

Education

2018–2020 Master Maschinenbau, Hochschule Mannheim – Germany. advanced Matlab programming, fluid mechanics (theory & CFD), material science, ...

2016–2019 Mechanical Engineer Degree, Ecole Nationale Supérieure des Arts & Métiers. solid & fluid mechanics, FEA & CFD, material science, manufacturing processes, industrialization, ...

2014-2016 Technical University Degree - Mechanical Engineering, IUT Poitiers.

Experiences

since Oct 2019 Aircraft Engineer, Design Tech Centre, Saint-Cloud – France.

- o design & calculation of an aerobatic airplane made of composite materials (P-51 Mustang) :
 - designing & drafting CAD parts
 - flight mechanics & aircraft balancing
 - dimensioning of cooling system reducing drag effect (radiator & oil circuit)
 - dimensioning of flight controls
 - structural analysis of the overall structure
 - FEA with composite materials methods & tools (workflow & scripting process)
- programming various tools/scripts for the team/project
- ${\color{blue} \circ}$ several independent FEA assigments : composite & isotropic materials
- o canvassing for subcontractors & purchasing customized parts

Feb – Sep 2019 Internship, AIRBUS Helicopters, Marignane – France, 6 months.

- Gearboxes transmission & toothing gears optimization :
 - programming of a toolbox/software for the gears development
 - pre-dimensioning of cylindrical and spiro-conical gears

2018 – 2019 Freelance - 3D Designer, Auto-entrepreneur, 11 months.

- CAD designing: Skateboard, Drift Trike Frame, tablefootball, etc...
- Major contract (4 months): Design of a laser cutting machine, establishing & delivering the specs
 - drafting of technical specifications from scratch
 - pre-dimensioning of the main parts

Skills

CAD : CatiaV5 & Autodesk Inventor Programming : Python3 (scripts/web-scrapper/OOP)
FEA & CFD : ANSYS, StarCCM+ C++ (data analysis/post-processer/OOP)

Productivity: LATEX, Office365, LibreOffice Qt/PyQt lib, Matlab, git/github

Projects

Metrics $\,$ research project on the compensation of geometrical defects of a 5-axis machining unit (2017-2018)

Hobbies

Sports: athletics (12 years of intensive practice), rugby - amateur level (5 years), climbing, hiking

PC & Tech: hardware/software industry, Linux, raspberry pi, automation, multimedia, etc...

Chess: play on regular basis