

Christophe Foyer

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French and US citizenships; Eligible to work without restriction in the USA and EEA

Education:

Washington University in Saint Louis, United States	Aug 2014 – Dec 2017
Bachelor of Science in Mechanical Engineering; Minor in Energy Engineering	3.14/4.00 GPA
RWTH Aachen, Germany	Jun 2017 – Jul 2017
Certificate in 'Renewable Energy Technology'	2.3/5.0 (Very Good)
Certificate in 'Mechatronics and Product Innovation'	1.3/5.0 (Excellent)
School for International Training, Reykjavik, Iceland	Jun 2015 – Aug 2015
Renewable Energy Engineering and Resource Economics	

Experience:

Wash. U. Design/Build/Fly Competition Team	Washington University in St. Louis, USA
<i>Co-Founder and Systems Team Lead</i>	Mar 2016 – Dec 2017
<i>Treasurer</i>	Aug 2016 – May 2017
<ul style="list-style-type: none">Co-led the team to 12th place out of 138 teams at the AIAA DBF 2017 competition, and 1st in the US MidwestDesigned aircraft internal system including battery and motor selection with the systems teamManaged an operating budget of \$10,000 to buy supplies and organize travel to the competitionScheduled weekly meetings with the team and set project deadlines	
American Society of Mechanical Engineers	Washington University in St. Louis, USA
<i>Member</i>	Jan 2016 – Dec 2017
<i>Event Planner</i>	Sep 2016 – May 2017
<ul style="list-style-type: none">Assisted ASME members with ongoing projects by advising them on manufacturing and component selectionResearched potential STEM-related speakers to fit within budget constraint, presented reasons to fund Michio Kaku's visit to campus, and secured a date for his visit	
Domaine du Vivier	Le Mesnil Mauger, France
<i>Seasonal farm hand</i>	Jun 2015 – Aug 2017
<ul style="list-style-type: none">Maintenance and operation of farming equipment and various agricultural work during the summer	

Projects:

www.cfoyer.com/#projects

Senior Design Project – Low-Cost CPV	Aug 2017 – Dec 2017
Foyer, Christophe; Rangwala, Adam; and Nana, Deep, "Water Lenses for Low-Cost Concentrator Photovoltaics" (2017). Mechanical Engineering Design Project Class. (https://openscholarship.wustl.edu/mems411/71/)	
<ul style="list-style-type: none">Coding of FEA and ray tracing software for optics simulation in MATLABDevelopment of a sunlight tracking circuit and coding using ArduinoCreation of a working proof of concept prototype increasing solar cell output by 860%.	
Motor Test Stand	Aug 2017 – Dec 2017
Design and construction of a motor test stand for Wash. U. Design/Build/Fly:	
<ul style="list-style-type: none">GUI development, serial communication protocol and sensor integrationCoded in Python and Arduino C, packaged in .exe format to facilitate deployment to new Windows installationsMeasures motor-propeller-battery system RPM, current, voltage, and thrust and logs output to CSV	
Personal Transportation	Oct 2016 – Dec 2017
Design and construction of a custom built electric longboard for daily usage and international travel:	
<ul style="list-style-type: none">CAD, FEA, and part fabrication in aluminum and FDM printing of plastic partsElectrical powertrain design including component selection balancing efficiency and costDesigned according to air travel and personal transportation regulations.	

Skills:

CAD / FEA / CFD:	SolidWorks, Autodesk Inventor, XFLR5
Programming Languages:	MATLAB, Simulink, Python, Arduino C, HTML
Fabrication:	3D-Printing, Machining (Lathe, Mill), Composite Manufacturing
Software:	Microsoft Office Suite, Windows, Linux
Languages:	Bilingual French - English • Basic German and Icelandic