

# Christophe Foyer

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## Education:

### Washington University in Saint Louis, United States

Aug 2014 – Dec 2017

Bachelor of Science

3.14/4.00 GPA

Major in Mechanical Engineering, Minor in Energy Engineering

- Dean's List (Fall 2014, Fall 2017)

**Study abroad:** SIT Iceland – 'Renewable Energy Engineering and Resource Economics'

### RWTH Aachen, Aachen, Germany

Jun 2017 – Jul 2017

Certificates in 'Renewable Energy Technology' and 'Mechatronics and Product Innovation'

- Completion with 2.3 (very good) and 1.3 (excellent) respective grades; Best-in-Class award

## Relevant Coursework:

Engineering Mechanics (I, II, III)  
Dynamics and Vibrations

Material Science  
Fluid Mechanics

Thermodynamics  
Heat Transfer

Sensors and Actuators  
Computer Aided Design

## Experience:

### Design/Build/Fly at Washington University in St. Louis

Mar 2016 – Dec 2017

*Co-Founder and Systems Team Lead*

Mar 2016 – Dec 2017

*Treasurer*

Aug 2016 – May 2017

- Co-led the team to 12<sup>th</sup> place out of 138 teams at the AIAA DBF 2017 competition, and 1<sup>st</sup> in the Midwest
- Designed aircraft internal system including battery and motor selection with the systems team
- Managed an operating budget of \$10,000 to buy supplies and organize travel to the competition
- Scheduled weekly meetings with the team and set project deadlines

### American Society of Mechanical Engineers at Wash. U.

Jan 2016 – Dec 2017

*Event Planner*

Sep 2016 – May 2017

- Researched 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

Jun 2015 – Aug 2017

*Seasonal farm hand*

(Multiple dates)

- Maintenance and operation of farming equipment and various agricultural work during the summer

### ICC, Ishinomaki, Japan

May 2014

*Volunteer*

- Construction of two wooden terraces for the local community and various maintenance work

## Projects: ([cfoyer.com/#projects](http://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/>)

- Coding of FEA and ray tracing software for optics simulation in MATLAB
- Development of a sunlight tracking circuit and coding using Arduino
- Creation of a working proof of concept prototype increasing solar panel output by 860%

## Skills and Abilities:

CAD / FEA / CFD:

*SolidWorks, Autodesk Inventor, XFLR5*

Programming Languages:

*Matlab, Simulink, Python, Arduino C (C/C++), HTML*

Fabrication:

*3D-Printing, Machining (Lathe, Mill), Composite Manufacturing*

Software:

*Microsoft Office Suite, Windows, Linux*

Languages:

*Bilingual French / English • Basic German and Icelandic*