

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, 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 12th place out of 138 teams at the AIAA DBF 2017 competition, and 1st 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 Washington University

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, Le Mesnil Mauger, France

Jun 2015 – Aug 2017

Seasonal farm hand

(Multiple dates)

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

Volunteering:

ICC, Ishinomaki, Japan

May 2014

Volunteer

- Construction of two wooden terraces for the local community in a region devastated by the 2011 tsunami.

Projects: (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 cell 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