

Le Yu

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OBJECTIVE

Seeking a mechanical engineering internship exercising skills in simulation, design, analysis and application of engineering solutions

EDUCATION

University of Connecticut, Storrs, CT

Bachelor of Science in Engineering, Mechanical Engineering

May 2018

Concentration: Aerospace **Minor:** Mathematics; **GPA:** 3.58/4.00

SKILLS

Software: SOLIDWORKS, ANSYS Fluent, MATLAB, OpenFOAM, ParaView, Unity,

Language: Native Chinese

PROJECTS

UConn School of Engineering, Storrs, CT

Senior Design Project (UTC Climate, Controls & Security)

September 2017 – Present

- Determine the liquid level inside a liquid-base fire suppression tank wirelessly and noninvasively
- Create 3D model for a knocking-recording-transmitting device using SOLIDWORKS
- Use ANSYS Modal Analysis to simulate natural frequency of fire suppression tanks
- Apply Fast Fourier Transform(FFT) Analysis to vibrating response of a tank to determine liquid level inside

CFD Simulation and VR Visualization Project

October 2017 – Present

- Create structured mesh to an irregular IC engine cylinder using OpenFoam
- Create and run CFD simulation using OpenFOAM
- Filter viewable steady and unsteady CFD simulation result using ParaView
- Develop an application to visualize CFD simulation result via virtual reality using Unity

CFD Course Project

October 2017 – November 2017

- Derived and ran CFD simulation to a steady-state convection-diffusion problem using MATLAB

Rocker Arm Project

September 2017 – October 2017

- Designed a rocker arm for inner combustion engine using SOLIDWORKS

WORK EXPERIENCE

University of Connecticut, Storrs, CT

Undergraduate Teaching Assistant

September 2016 – May 2017

- Evaluated and made statistic collection of student performance
- Held discussion sessions and office hours to help students learn

BASF-YPC Company Limited, Nanjing, Jiangsu, China

Internship

June 2015 – July 2015

- Monitored and Controlled production of LDPE/EVA plant
- Found and solved possible problems during production in hazardous environment

Standard-Chartered Bank, Nanjing, China

Internship

June 2014 – July 2014

- Solved marketing problems and learned sales skills

ACTIVITIES

UConn 3D Printing Club

Active Member

January 2017 – Present

- Design, print, and modify 3D models using SOLIDWORKS