

**Houpei Li, EIT**  
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**Looking for Summer Internship in 2017**

**Educations**

**University of Illinois at Urbana-Champaign (UIUC)** **08/2013-Date**  
Degree: M.S. in Mechanical Engineering (May 2016)  
Ph.D Candidates in Mechanical Engineering (Estimated Graduation in Summer 2018)  
GPA: 3.84  
Research Advisor: Predrag Hrnjak

**University of Kentucky (UK)** **08/2011-05/2013**  
Degree: B.S. in Mechanical Engineering (May 2013)  
GPA: 4.0  
Passed Fundamentals of Engineering Exam

**China University of Mining & Technology (CUMT)** **09/2009-07/2011**  
Degree: B.E. in Mechanical Engineering and Automation (July 2013)  
GPA: 3.63  
*I obtained both Bachelor degrees through the 2+2 Joint Program between UK and CUMT*

**Research Experiences**

**Evaporation and Condensation of New Low GWP Fluids W/ and W/o Oil** **Summer 2015 – Date**  
ACRC project 361, assembled a facility and tested heat transfer coefficient and pressure drop of refrigerants

**Heat Transfer Experiment Facility Design and Assemble** **Summer 2014 – Spring 2015**  
Designed and assembled a heat transfer experimental facility for refrigerants mixtures

**Using Large Eddy Simulation for turbulent research** **Spring 2013**  
LES-Smagorinsky model was used to model a wall-bounded flow

**Numerical analysis of a turbulent channel flow facility** **Fall 2012**  
Used the commercial code CFX to model the Turbulent Channel Flow Facility at University of Kentucky

**Course Projects**

**Heat Transfer Mini Research Numerical Project (Team Work)** **Spring 2014**  
Used commercial code Fluent to model CPU cooling heat sink performance

**Heat Transfer Numerical Project** **Fall 2013**  
Used Matlab to analyze a heat transfer problem in ball bearing manufacturing process

**Mechanics Analysis of Plate-like Pipe Holder** **Spring 2013**  
Used ANSYS to simulate a plate-like pipe holder and analyze the stress

**Design an Exhaust System for Formula SAE Car (Team Work)** **Fall 2012 - Spring 2013**  
Used acoustic code SIDLAB to model mufflers and fabricated the headers and mufflers for a FSAE car

**Mechanical Design of Gearbox (Team Work)** **Spring 2012**  
Designed a gearbox that requires transmitting power from the turbine coupling to the generator coupling

**Skills:**

**Programming:** C++, Fortran 95, Matlab, ESS, LabVIEW  
**Software:** Solid Edge, Pro-E, Visio, Pointwise, CFX, Fluent, Tecplot, Sidlab, ANSYS, Latex  
Experiences with supercomputers, Linux command lines, and Ubuntu OS  
**Programming:** Mandarin (Native), English (Fluent)

**Scholarships & Fellowships**

**Teaching & Researching Assistant** **Summer 2014 - date**  
**Departmental Fellowship, UIUC** **Fall 2013**  
**International Engineering Transfer Student Scholarship, UK** **Spring 2012 & Spring 2013**

**International Student Tuition Scholarship, UK  
University Scholarship, UK  
Excellent Students, School of Mechatronic Engineering, CUMT**

**Fall 2012 & Spring 2013  
Spring 2013  
Fall 2010**

**Awards and Honors**

**Secretary, Pi Tau Sigma, Mechanical Engineering Society, UK  
Phi Sigma Theta, Engineer Honor Society, UK  
First Prize of Mechanical Design Competition, CUMT**

**Fall 2012-Spring 2013  
Spring 2012  
Spring 2011**