**Tianyi Zhang**

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**EDUCATION**

**Shanghai Jiaotong University, University of Michigan-Shanghai Jiao Tong University Joint Institute**,

Bachelor of Mechanical Engineering, Expected in July 2016

* GPA: 3.2 /4.0
* TOFEL: 102(R28 L25 S22 W27) GRE:317( V147 Q170 W3.0)
* Core Courses:

Design and Manufacturing Modeling, Analysis and Control of Dynamic Systems

Intro to Circuits Intro to Solid Mechanics Intro to Dynamics and Vibrations

Thermodynamics Fluid Mechanics Heat Transfer Mechanical Behavior of Materials

Automatic Control Automotive Engineering Intro to Computers & Programming

**RESEARCH EXPERIENCES**

**Real-Time Tip-Clearance Measurement System**

Instructor: Mingjian Li from SJTU Mentor: Libing Jia from Siemens Sep.2015-Present

The project was a collaborative research project between Siemens gas turbine R&D center and Shanghai Jiaotong University .

* Designed and constructed a test rig simulating rotating blades in a casing with 80 blades and maximum rotating speed of 3600rpm;
* Set up a sensor system that is able to perform real-time measurements of tip clearance with precision of 0.2mm, range at 20mm and withstands temperature of 400℃;
* Used DAQ system to perform data acquisition through LabVIEW and analyzed measured results.

**Research the performance of membrane dehumidification with salt desiccant solution (LiCl)**

Instructor: Ye Yao, Shanghai Jiaotong University  Jul. 2015-Aug. 2015

* Designed and built membrane dehumidifier with dehumidifying speed of 0.35kg/h;
* Investigated factors that affect dehumidifying [efficiency](http://dict.cn/efficiency) including, inlet air, LiCl solution, membrane structure;
* Performed material selection for the membrane;
* Calculated [heat and mass transfer](http://dict.cn/heat%20and%20mass%20transfer) coefficient.

**WORK EXPERIENCES**

**Dresser-Rand Engineered Equipment (Shanghai) Ltd. Winter Intern** Jan.2014-Feb. 2014

* Received training in compressor and its auxiliary system;
* Participated in centrifugal compressor overhaul at service center;
* Learned to calculated ideal-gas key operating parameters for compressor sizing.

**Honeywell (Tianjin) Co., Ltd. Summer Intern**  Aug.2014-Sep.2014

* Learned how to setup hardware/software configuration based on engineering specifications, including system layout, I/O assignment, HMI graphic configuration, integrity test PID & interlock;
* Participated in 210 I/Os simulation and checks, software configuration for over 100 loops , including multiple complex loops, network and communication tests etc. in the refinery renovation project.

**HONORS & AWARDS**

**Honorable Mention, Mathematical Contest In Modeling (MCM,USA) 2014**

**Freshman Scholarship, Joint Institute, Shanghai Jiaotong University**   **2012**

**ADDITIONAL**

Computer skills: C, C++, AutoCAD, Soliworks, Pro/Engineer, Unigraphics NX, Autodesk, Matlab, Mathematica, OriginLab, Fluent, Ansys, Latex, Endnote, Microsoft Office, etc.

Achieved the Highest Level (Level 10) of China National Saxophone Amateur Testing.