

Qichen SONG

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EDUCATION

Huazhong University of Science and Technology (HUST), SEPT. 2011 - PRESENT
MAJOR: Thermal Energy and Power Engineering
DEGREE: Bachelor of Engineering, expected June 2015
OVERALL GPA: **92.67/100** OVERALL RANK: **1/386**

Standard Tests
GRE: V152+Q170+AW4
TOFEL: 103 (R30 L27 S19 W27)

RESEARCH EXPERIENCE

- Research on the thermal conductivity of folded graphene** NOV. 2013 - PRESENT
Nano Heat Group SUPERVISOR: *Prof. Nuo Yang*
- Simulating the evolution process by nonequilibrium molecular dynamics (NEMD)
 - Designing innovative structure to reduce the thermal conductivity
 - Modifying the parameters of structure to obtain a converged outcome
- Research on the thermal and fluid field analysis of sapphire crystal growth** NOV. 2013 - PRESENT
Lab of Thermal Science and Technology SUPERVISOR: *Prof. Haisheng Fang*
- Analyzed the velocity field by using Computational Fluid Dynamics software
 - Used Discrete Phase Model to investigate the distribution of inert impurities
 - Investigated the relationship between the quality of the sapphire and the rotation speed
- Team leader on designing the device exploiting wave energy in small watersheds** MAY 2013 - AUG. 2013
SUPERVISOR: *Prof. Jun Xiang*
- Designed and optimized the shape of the floating part
 - Designed the core component to collect and convert the wave energy
 - Made the prototype of the device

HONORS AND AWARDS

- National Scholarship (Twice)** Nov. 2012 & 2013
Top 1% among all competitors, awarded by Ministry of Education of PRC.
- Outstanding Student of Huazhong University of Sci. & Tech. (Twice)** 2012 & 2013
Top 1% among all 2nd & 3rd year students, one of the top honor for undergraduates.
- Merit Student (Twice)** 2012 & 2013
Top 4% among all competitors, issued by HUST.
- Excellent Award in the 3rd National Water Resource Innovation Design Competition** JULY 2013

INTERNSHIP EXPERIENCE

- Summer Intership at Shangu Power Co.,Ltd., Xi'an** JULY 2014
- Learned the manufacturing process of axial compressor
 - Learned the experimental method of rotator moving equilibrium
 - Learned the CFD calculation of compressor and turbine design

COMPUTER SKILLS

FORTRAN90, C++, Fluent, AutoCAD, MatLab/Simulink