

# 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: 92.6/100      OVERALL RANK: 1/366

**Standard Tests**

GRE: V152+Q170+AW4

TOFEL: 107 (R29 L30 S23 W25)

## 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 - MAY 2014

*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

## PATENT

Q.S. Song et al, "An electricity generating device by exploiting small wave energy" (patent submitted 2014)

## HONORS AND AWARDS

**National Scholarship (Three times)**

2012 & 2013 & 2014

Top 1% among all competitors, awarded by Ministry of Education of PRC.

**Outstanding Student of Huazhong University of Sci. & Tech. (Three times)**

2012 & 2013 & 2014

Top 1% among all 2nd & 3rd year students, one of the top honor for undergraduates.

**Merit Student (Three times)**

2012 & 2013 & 2014

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 (MPI), C++, Fluent, AutoCAD, MatLab/Simulink, L<sup>A</sup>T<sub>E</sub>X