

# Qichen Song

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## EDUCATION

**Huazhong University of Science and Technology (HUST)**, Sep. 2011 -Present

Major: Thermal Energy and Power Engineering

Degree: Bachelor of Engineering, expected June 2015

Overall GPA: **92.1/100** Overall Rank: **1/366**

### Standard Tests

TOFEL: 107 (R29 L30 S23 W25)

GRE: V152+Q170+AW4.0

## RESEARCH EXPERIENCE

### Research on the thermal conductivity of folded graphene

Nov. 2013 - Present

Supervisor: Prof. Nuo Yang

*Nano Heat Group*

- 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

Supervisor: Prof. Haisheng Fang

*Multiscale Process Modeling Lab*

- 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 utilizing 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.C. Song et al, "An electricity generating device by utilizing 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 Internship at Shangu Power Co.,Ltd.**, Xi'an

July 2014

- Learned the manufacturing process of axial compressor
- 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