

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 Intership 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, \LaTeX