Qichen Song

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Education

Huazhong University of Science and Technology (HUST), *2011.09-present*
Major: Thermal Energy and Power Engineering
Degree: Bachelor of Engineering, expected *2015.06*
Overall GPA: **92.2/100** Overall Rank: **1/366**

Standard Tests
TOFEL: 107 (R29 L30 S23 W25)
GRE: V152+Q170+AW4.0

Research Experience

Research on coupling between different vibrational modes of graphene *2014.09-present*
Advisor: Prof. Nuo Yang, Dr. Meng An *Nano Heat Group*

- Modeling thermal transport by nonequilibrium molecular dynamics (NEMD)
- Calculating temperature gradient in separated directions with varying lengths
- Investigating size-dependent effect of the coupling between different vibration modes

Research on the thermal conductivity of folded graphene *2013.11-present*
Advisor: Prof. Nuo Yang *Nano Heat Group*

- Simulating the evolution process by NEMD
- Designing innovative structure to reduce the thermal conductivity
- Modifying the parameters of structure to obtain a converged outcome

Research on the temperature and flow field analysis of sapphire crystal growth *2013.08-2013.11*
Advisor: 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 *2013.05-2013.08*
Advisor: 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" (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 Univ. of Sci. & Tech. *2012-2014*
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 *2013.07*

Internship Experience

Summer Intership at Shangu Power Co.,Ltd., Xi'an *2014.06*

- 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