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: **92.6/100** 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
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 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, LaTeX