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: **92.67/100** Overall Rank: **1/366**

Standard Tests
GRE: V152+Q170+AW4
TOFEL: 103 (R30 L27 S19 W27)

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 - present
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

Honors and Awards

National Scholarship (Twice) Nov. 2012 & 2013
Top 1% among all competitors, awarded by Ministry of Education of PRC.

Outstanding Student of Huazhong University of Sci. & Tech. (Twice) 2012 & 2013
Top 1% among all 2nd & 3rd year students, one of the top honor for undergraduates.

Merit Student (Twice) 2012 & 2013
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, C++, Fluent, AutoCAD, MatLab/Simulink