

QICHEN SONG

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EDUCATION

Massachusetts Institute of Technology (MIT) Major: Mechanical Engineering Degree: Master of Science	2015.08-present
Huazhong University of Science and Technology (HUST) Major: Thermal Energy and Power Engineering Degree: Bachelor of Engineering Overall GPA: 92.2/100 Overall Rank: 1/366	2011.09-2015.06

RESEARCH EXPERIENCE

Research on coupling between different phonon modes in graphene Advisor: Prof. Nuo Yang, Dr. Meng An <i>Nano Heat Group</i> <ul style="list-style-type: none">Built an model to manipulate in-plane/out-of-plane temperature gradientInvestigated coupling between different phonon modes (TA, LA and ZA) and their contributions to thermal conductivity	2014.09-2015.06
Research on modulation of thermal conductivity in folded graphene Advisor: Prof. Nuo Yang <i>Nano Heat Group</i> <ul style="list-style-type: none">Independently wrote FORTRAN code of nonequilibrium molecular dynamicsDesigned innovative structure to reduce the thermal conductivity significantlyObtained size-independent thermal conductivity that characterizes large-area folded graphene's thermal properties	2013.11-2015.06
Research on the temperature and flow field analysis of sapphire crystal growth Advisor: Prof. Haisheng Fang <i>Multiscale Process Modeling Lab</i> <ul style="list-style-type: none">Comprehensively investigated varied flow fields' influence on sapphire growthUsed Discrete Phase Model to investigate the distribution of inert impuritiesSimplified the complex system and found a new way to improve sapphire's quality	2013.08-2013.11
Team leader on designing the device utilizing wave energy in small watersheds Advisor: Prof. Jun Xiang <ul style="list-style-type: none">Designed the innovative machine to harvest small wave energySuccessfully optimized the structure by modeling and effectively improved the energy conversion efficiencyMade the prototype of the device	2013.05-2013.08

PATENT

Q.C. Song et al, 'An electricity generating device by utilizing small wave energy' (CN201420634269.0)

HONORS AND AWARDS

National Scholarship (Three times) Top 1% among all competitors, awarded by Ministry of Education of PRC	2012,2013,2014
Outstanding Student of Huazhong Univ. of Sci. & Tech. Top 1% among all 2nd & 3rd year students, one of the top honor for undergraduates	2012-2014
Merit Student (Three times) Top 4% among all competitors, issued by HUST	2012,2013,2014
Excellent Award in the 3rd National Water Resource Innovation Design Competition	2013.07

INTERNSHIP EXPERIENCE

Summer Intership at Shangu Power Co.,Ltd., Xi'an <ul style="list-style-type: none">Learned details of manufacturing process of tail gas turbineSystematically learned the CFD computation methods for turbine design	2014.06
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COMPUTER SKILLS

FORTRAN90(MPI), C++, Fluent, AutoCAD, MATLAB/Simulink, \LaTeX