

Kevin Dale Parrish

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Education:

Carnegie Mellon University, Pittsburgh, PA

Jan 2012 - May 2013, Aug 2013 - Present

Ph.D in Mechanical Engineering

GPA: N/A

M.S. in Mechanical Engineering

GPA: 3.9

Research: Currently working towards a paper on the effects of thermal transport and phonons components in Lennard-Jones argon and DFT silicon

Relevant Coursework: Molecular Simulation of Materials, Advanced Thermodynamics, Numerical Methods

The Johns Hopkins University, Baltimore, MD

May 2011

B.S. in Chemical and Biomolecular Engineering

Concentration in Molecular and Cellular Bioengineering

Relevant Coursework: Transport Phenomena I & II, Modeling Dynamics/Control, Intermediate Programming

Experience:

The Malen Laboratory - Pittsburgh, PA

Aug 2013 - Present

Student Researcher

- Laboratory lead by professor Jonathan Malen studies energy transport and conversion at the nanoscale using experimental techniques
- Performed high speed laser measurements to measure thermal conductivity and mean free path spectra of phonons on both bulk and thin film systems.

Nanoscale Transport Phenomena Laboratory - Pittsburgh, PA

May 2012 - Present

Student Researcher

- Laboratory lead by professor Alan McGaughey computationally studies thermal and phonon transport at the nanoscale for both application-specific devices and theory
- Used computational techniques such as molecular dynamics (LAMMPS), lattice dynamics (GULP), and normal mode decomposition

Ted Ross Consulting, LLC - Montgomery Village, MD

Aug 2011 - Dec 2011

Mechanical Systems Engineer Intern

- Designed HVAC and plumbing system upgrades for integration into existing systems for commercial, condominiums, and multi-unit residential buildings
- Used Carrier® Hourly Analysis Program to model the thermal requirements of buildings and AutoCAD to draw project specification sheets
- Determined best retrofit options for buildings based on energy loads, client's needs and budget

Johns Hopkins Varsity Football - Baltimore, MD

2007, 2009 - 2010

Defensive Lineman

- 2009 NCAA DIII Playoffs. 2009, 2010 Centennial Conference champions
- Committed 25-30 hours per week

Technical Skills:

Software: LAMMPS, GULP, C, C++, Python, MATLAB®, Linux (cluster administration), MS Office Suite, 2D AutoCAD®, Carrier® Hourly Analysis Program