**Vaibhav R. Shrivastav**

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Profile

Meticulous master's student seeking an internship/co-op position in the field of Mechanical Engineering with Thermal

and Fluid science as major that will utilize my skills and knowledge.

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Education

* Purdue School of Engineering & Technology (IUPUI) Expected Graduation: May 2017

Master of Science in Mechanical Engineering

Specialization in Thermal and Fluid science

* University of Pune Graduated: May 2015

Bachelor of Engineering in Mechanical Engineering

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## Skills

* Mass Spectrometry
* Super Computer
* Fluid Systems
* **Software**: CATIA, MATLAB, Fluent, AutoCAD, IMOS, MOBCAl
* **Programming languages**: C, C++, HTML

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Professional Experience

**Thermal Science- Department of Mechanical Engineering**  Jan 2016 – present Research Assistant (Molecular Kinetics Lab)

* Numerical development of Kinetic Theory of Gases.
* Working on mass spectrometry and drift tube.
* Performing numerical analysis on Ion mobilization using different software and validating results.

**Clothespa Laundry Services** June 2014 Project intern

* Optimized ignition system of boiler and lead in maintenance of boiler.
* Learned about various fluid technologies and machineries used at laundry.

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Projects and Seminars

* Natural gas composition and its influence on combustion performance Fall 2015

and emissions in a typical gas turbine combustor

* Design and manufacturing of solar tracker using gear train and IC controller April 2015
* Seminar on “Nuclear Propulsion System” which comprised of use of nuclear power for

rocket propulsion (presented) May 2014

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Relevant courses

* Advanced Thermodynamics
* Intermediate Heat Transfer
* Combustion
* Instrumental Analysis of Trace Evidence
* Plasma physics and application
* Fluid Mechanic

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Research Interests

* Thermal and Fluid science
* Computation Fluid Dynamics
* Aerosol science
* Molecular Dynamics
* Propulsion science

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## Activities

* Member of Astronomy Club “Jyotirvidya Parisanstha”
* Represented the “Astrosat” model at Inter University Center of Astronomy and Astrophysics, Pune
* Attended workshop on “ Computational Fluid Dynamics” , ICEM
* Participated in various Robotic events