

Avinash Kumar Ray

avinash.rai63@gmail.com - (682)559-1726 www.linkedin.com/in/avinashkumarai

An objective oriented Mechanical Engineer seeking Co-Op/ Internship opportunities in Design and Manufacturing Engineering for Summer 2015.

EDUCATION

Masters (MS) – Mechanical Engineering, University of Texas at Arlington	GPA: 3.50/4.0	May 2016
Bachelors (BE) – Mechanical Engineering, Amrita University, India	CGPA: 7.5/10.0	May 2014

SKILLS

-Modeling and Meshing Software: Solid works, Auto Cad, Solid Edge, Catia, PRO-Engineer, ANSYS-FLUENT, HYPERMESH

-Programming: C, Matlab

INDUSTRIAL EXPERIENCE

Research Assistant (Primary Breakup of Liquid Sheet using Air assisted Twin Fluid Atomizer) June'13-May'14

-Studied and analyzed the effect of different air velocities in enhancing the breakup pattern of liquid sheet in a twin fluid atomizer.

-Studied and calibrated the effect of increasing air velocity on various parameters of fluid such as Breakup length, Spray angle, and Void fraction.

Manufacturing Intern, Vizag Steel Plant, India May'12-June'12

-Studied closely the manufacturing process of TMT steel bars of different cross sections.

- Monitored closely different Manufacturing processes in the Engineering shops used to produce steel.

Design and Manufacturing Intern, Bharat Heavy Electronics Limited, India Dec'12-Jan'13

-Trained in design of turbine blades and observed the manufacturing process of steam turbines.

ACADEMIC PROJECTS

Design of a Hovercraft model for NO WHEEL TRIC in SAE 2012 Spring 2012

-Chief designer in a team of 4 members in the designing and manufacturing process.

-Checked for different stability tests using Analysis software.

Primary Breakup of Liquid Sheet using Air assisted Twin Fluid Atomizer Spring 2014

-Studied and understood the effect of different air velocities to increase the breakup pattern of liquid sheet coming out of the nozzle in a twin fluid atomizer.

PUBLICATIONS AND PRESENTATIONS

1. Sai Praneeth Jasti, Avinash Kumar Ray. " *Testing For Subtlety in Analysis Software* ", Vol.2 - Issue 12 (December - 2013), International Journal of Engineering Research & Technology (IJERT) , ISSN: 2278-0181 , www.ijert.org
 2. Avinash ,R., Giriteja ,P., Sambasiva Rao,S., Venkateshwaran,M., Balaji, K. * Primary Breakup of Liquid Sheet using Air assisted Twin Fluid Atomizer.
-

RELEVANT COURSEWORK

Thermal Conduction, Fluid Dynamics, Finite Element Method, Finite Element Method in heat and Fluids, Computational Techniques in Electronic Packaging, Heat Transfer, Design of Machine Elements, Metallurgy and Material Sciences, Manufacturing Technology, Computational Fluid Dynamics, Gas Dynamics, Thermodynamics, Marketing Management