

Harshvardhan Agrawal | 07MF1013

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EDUCATION

Program	Institution	%/CGPA	Completion
B Tech in Manufacturing Science & Engineering	Indian Institute of Technology Kharagpur	7.2	2011
XII	Central Academy, Kota	85.4%	2007
X	MB DAV Public School, Lohardaga	90.8%	2005

ACADEMIC ACHIEVEMENTS

- Awarded MCM Scholarship (2007-2010, 3 times) by IIT Kharagpur.
- Awarded Certificate of Achievement by DAV College Managing Committee, for academic excellence.
- Secured 2nd in District Talent Hunt Examination 2004, organized by Blue Diamond Society, Gumla, Jharkhand.

PROJECTS/PUBLICATIONS

- Hardening of Ball Bearing Surface by LASER Line Hardening (Guide - Prof. P. Saha) (July 2010- Ongoing)
 - The method will make track, matrix of hard line on the surface of bearing on which ball will rotate.
 - This method will enable use of ball bearings without any lubrication.
- Optimization of working parameters in flaking machine. (Under Prof. S.C. Mahapatra) (July 2010-Ongoing)
 - Determination of the working pressure using the design parameters and suggesting methods for regulation of the steam flow.
 - Determination of speed of rotation for the flaking cylinder for various crops using heat transfer calculations.

RELEVANT COURSES/LABS

- Operational Research 1
- Economics
- Probability & Statistics
- Marketing Management
- Soft Computing
- Computer Software

INTERSHIPS/PROFESSIONAL EXPERIENCE

- Internship at Calcutta Electric Supply Limited, Kolkata (May-June 2010)
 - Learned the technical aspects and application of thermodynamics in Power Plant. Worked with the operations team in the Power Plant.
 - Prepared a report on the Water Demineralization, this report will be used for future training purpose.
- Internship at Special Engineering Services, Kolkata (Dec 2009)
 - Worked in the Engineering Division involved in the manufacturing of automobile components.
 - My work was related to manufacturing of components for personalized/vintage models.

POSITIONS OF RESPONSIBILITY

- Captain, Product Design Team, Azad Hall of Residence, IIT Kharagpur (2010-2011)
 - Led a team of 25 members that worked together to conceptualize 'KRISHAK', a product that can save up to 10% of water and fertilizer in farms by automated fertigation system.
 - Presented the idea of product to a panel which praised it for the impact it can bring in farmer's life.
- Captain, Lights Committee, Azad Hall of Residence, IIT Kharagpur (2010-2011)
 - Managing a team which helps during the Inter Hall dramatics events, the team bagged Gold in 2008-09.

EXTRA-CURRICULAR/CO-CURRICULAR ACTIVITIES

- Team Member, Hockey
 - Secured 3rd position in Open IIT Hockey (2008)
- Robotics Winter Workshop
 - Worked in team to make a light following autonomous robot. My part was designing algorithm for it.
- Participation in Kshitij in the event TerraRanger and NightShift. Among top ten team for finals in NightShift.