



HARSHIT RAJAIYA (ROLL NO 07 ME 1036)

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W1-307,MS HALL ,IIT Kharagpur

ACADEMIC QUALIFICATION

YEAR	EXAMINATION	BOARD/COLLEGE	% / CGPA
2005	Class X	ICSE	92
2007	Class XII	CBSE	83
2010	B.Tech(Mechanical)	IIT Kharagpur	8.57(after 6 th semester)

ACADEMIC DISTINCTIONS

Competitive Examinations	<ul style="list-style-type: none">▪ All India rank of 1018 in IIT-JEE 2007.▪ All India rank of 919 in AIEEE 2007.▪ All India rank of 74 in mathematics level 3 examination conducted by talent search institute in 2004.
Scholastic Achievements	<ul style="list-style-type: none">▪ State rank of 6 in Rajasthan in Regional Maths Olympiad 2006, among 120 students of class XII, throughout the country, selected for Indian National Maths Olympiad.▪ High distinction in mathematics examination conducted by University of New South Wales as part of International assessment for Indian schools.

SELECT PROJECTS

- A Government sponsored project to show the simulation of kinematics of Puma-560 robot and other mechanisms and their fabrications using rapid prototype machine.
- Developing a simulation model of fuzzy logic based controllers used to improve vehicle dynamic stability to ensure better safety of drivers.
- Currently working on calculation of viscous dissipation rate in porous media which has application in designing heat exchangers and journal bearings as a part of my B.Tech project.

INTERNSHIP

HERO HONDA MOTORS LMTD **Frame Plant division** May'10-June'10

- **Improvement in design of Karizma-ZMR** fuel tanks by finding the cause of misalignment of front cowls on fuel tanks and suggesting minor changes in fuel tank dies to reduce this problem.
- Made a pareto analysis of defects in different regions of fuel tanks and made suggestions for reductions of these defects.
- Line balancing of stations involved in fuel tanks manufacture.

ADDITIONAL COURSES/SOFTWARE SKILLS

- Financial Management
- Soft Computing (fuzzy logic, genetic algorithm and neural network)
- Simulation of Mechanical Systems
- C, JAVA and MATLAB
- SOLIDWORKS, MSC ADAMS.
- Simulation using bond graphs

EXTRACURRICULAR ACHIEVEMENTS

Sports	<ul style="list-style-type: none">▪ Won open IIT hockey tournament in the year 2009.
Community service	<ul style="list-style-type: none">▪ Passed B certificate examination of National Cadet Corps (NCC) held in 2008 under authority of Ministry of Defence, Government of India.▪ Made a survey of water shortage and storage problems faced by the people of Gopali village and recommended possible solutions to Rural Development Centre, IIT Kharagpur.