

Aditya Kumar Mourya

Mechanical Engineering,
Indian Institute of Information Technology,
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Objective

With my skill set, I'll give complete assistance to the organisation in realizing their expectations and goals, thereby aiding to the growth of my organisation and myself.

Fields of Interest

- Fluid Mechanics
- Heat Transfer
- CAD Modelling

Educational Qualification

Degree**/Examinations	Institution	Year	CGPA / % marks								CGPA*
			I	II	III	IV	V	VI	VII	VIII	
Bachelor's Degree (B. Tech)	IIITDM, Jabalpur	2012	7.0	7.5	7.0	8.1	8.9	7.9	8.0		7.8
Intermediate Exam (CBSE Board)	R LB Memorial Sr. Sec. School, Lucknow	2007						85.2%			
High School Exam (CBSE Board)	R LB Memorial Sr. Sec. School, Lucknow	2005						89.6%			

*CGPA till the VIIth Semester

**Bachelor's Program will be complete in April, 2012

Relevant Courses

The courses are mentioned at the following link (URL):

<http://www.iiitdmj.ac.in/Academics/programme.html>

Technical Skills**Programming Languages**

C, Autolisp, OpenGL

CAD/CAM & Simulation

MatLab, AutoCAD, Catia, ADAMS, SolidWorks

Engineering Tools

LabView, PCB Design tools

Other Tools

MS Office Family, Adobe Photoshop Basics

Operating Systems

Windows XP/Vista/7 and Linux

Projects and Workshops

- Summer Training At HAL Accessories Division, Lucknow

Duration: June'10-July'10

Topic: The aim was to extend the knowledge of manufacturing technology & its various applications.

- **Installation & Commissioning of High Pressure Green Sand Moldmaster at Frontier Alloy Steels Ltd., Kanpur**

Mentor: Mr. T. V.K. Gupta, Visiting Faculty, IIITDM, Jabalpur

Duration: June'11-Nov'11

Topic: In this project the challenge was to install the Moldmaster along with the study of its hydraulic & pneumatic system with the help of drawings & schematics. The project was done to the stage of dry – run.

Team Size: 3

- **Design & Fabrication of a Novel Design of Stapler**

Mentor: Dr. H. Chelladurai, Associate Professor, IIITDM Jabalpur

Duration: August'10-April'11

Topic: This was a design & fabrication project. The proposed design was capable to join paper at any point on an A4 sheet. Our efforts materialized in form of complete drawings, 3D model and simulation, stress analysis, engineering specifications and a fully-functional fabricated product.

Tools: SolidWorks, Adobe Photoshop

Team Size: 3

- **Fabrication of Modified Ship Hull**

Mentor: Dr. Tanuja Sheorey, Associate Professor, IIITDM Jabalpur

Duration: August'10-April'11

Topic: This was a fluid mechanics project. The aim of this project was to develop the understanding of concepts of buoyancy in fluid mechanics along with its application in the design of various objects like ship, submarine etc.

Tools: SolidWorks

Team Size: 3

- **CIM Project- Leg Operated Air Pump**

Mentor: Dr. P.K. Jain, Associate Professor, IIITDM Jabalpur.

Duration: August'10-November'10

Topic: The aim of this project was to develop the CAD model of leg operated air pump which includes drawing sheets, part design, assembly, engineering specifications & simulation.

Tools: SolidWorks

Team Size: 2

- **Project Presentation on Research Paper on JIT Vs EOQ**

Mentor: Dr. Sunil Agarwal, Assistant Professor, IIITDM Jabalpur.

Duration: August'10-November'10

Topic: The aim was to develop the understanding about the economics of inventory models by studying the research paper on JIT Purchasing Vs EOQ With a Price Discount: An Analytical Comparison Of Inventory Cost & plotting of various cases.

Tools: MATLAB

Team Size: 5

- **Simulation, Analysis & Fabrication of Simplex Indicator Mechanism**

Mentor: Dr. Tanuja Sheorey, Associate Professor, IIITDM Jabalpur.

Duration: January'10-April'10

Topic: The aim was to develop the understanding about the mechanism of simplex indicator, kinematics analysis & prototype development.

Tools: MATLAB, ADAMS

Team Size: 3

- **Design of Overhead Tanks**

Mentor: Dr. Puneet Tandon, Professor, IIITDM Jabalpur.

Duration: January'10-April'10

Topic: The aim was to develop the understanding about the whole design process including conceptual design through QFD, embodiment design, detail design.

Tools: SolidWorks

Team Size: 3

- **Mechatronics Project – Automatic Beam Adjustment**

Mentor: Dr. Tanuja Sheory, Associate Professor, IIITDM Jabalpur

Duration: Jan'11-April'11

Topic: The aim was to automate the process of adjusting the beam of the headlight of a vehicle when another one approaches it from the opposite direction.

Tools: EdWinXp(PCB Designing Software), NI's LabView

Team Size: 3

- **Workshops**

CAD using CATIA, workshop conducted by TATA TECHNOLOGIES, New Delhi during ABHIKALPAN'09, IIITDM Jabalpur

Academic Achievements

- Rank among top 2.2% in over 8, 50,000 students in All India Engineering Entrance Examination (AIEEE)-2008.

Extra-curricular Achievements

- Currently Co-ordinator of the **CAD CLUB**, IIITDM Jabalpur.
- Participated in **Hindi Creative Writing** event in Tarang'10, IIITDM Jabalpur.
- Won 2nd prize in **Hindi Word Games** event Tarang'10, IIITDM Jabalpur.

References

- Dr. Tanuja Sheorey,
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- Dr. H. Chelladurai,
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Personal Details

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Declaration

I hereby affirm that the above mentioned information is true to the best of my knowledge and belief.

Aditya Kumar Mourya

5th December, 2011