

RAGHAV KUMAR

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Objective

To be able to intern in design engineering sector during summer 2016 (18th May 2016 to 30th July 2016)

Education

B.E. MANUFACTURING ENGINEERING & M.SC. PHYSICS (HONS.) |AUG 2013- PRESENT (COMPLETION AUG 2018) | BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCES, PILANI - PILANI CAMPUS

- As a part of Dual Degree, presently in 6th semester.
- Courses done - Thermodynamics, Computer Programming, Electrical Sciences, Workshop Practice, Engineering Graphics (AutoCad), Principles of Management, Mechanics of Solids, Fluid Mechanics, Material Sciences and Engg., Applied Thermodynamics, And Mechanical & Engg. Lab amongst others.
- Courses enrolled – Machine Design and Drawing (SolidWorks), Kinematics and Dynamics of Machines, Manufacturing Processes, and Manufacturing Management in 6th semester. Current CGPA 6.15.

C.B.S.E. SENIOR SECONDARY | APRIL 2009 – APRIL 2013 | AMITY INTERNATIONAL SCHOOL, NOIDA

- Secured 95% Aggregate in Science + Mathematics and Physical Education.
- School topper in Physical Education in class 12th.
- Secured 10 CGPA in class 10th.
- Received yearly awards for proficiency in academics, extra-curricular activities and personality.

Skills & Abilities

MANAGEMENT AND LEADERSHIP

- Resourceful, knowledgeable and skilled in analyzing and solving problems.
- Ability to prioritize and complete multiple tasks under stressful situations.

COMMUNICATION

- Excellent written, verbal and interpersonal communications.
- Fluent in English and Hindi.

TECHNICAL SKILLS

- Knowledge of basic programming languages such as C, JAVA etc.
- Good knowledge of all operating systems. Experience of working on ADOBE PHOTOSHOP, AUTOCAD, SOLIDWORKS and other CAD softwares and a quick learner of softwares such as MATLAB, COMSOL, ANSYS, CATIA etc.
- Have experience with a Computerized Numeric Control (CNC) machine, lathe machine, arc and gas welding etc.

Previous Internship Experience

VOCATIONAL TRAINEE | STEEL AUTHORITY OF INDIA, ROURKELA STEEL PLANT | 22ND MAY, '15 – 16TH JULY, '15

- We did a project on **"FIRE PROTECTION MEASURES AND COOLING SYSTEMS USED IN TRANSFORMERS AT ROURKELA STEEL PLANT"**. The project received a certificate of appreciation from our mentor Mr. R.K.SHAH, DGM, POWER DISTRIBUTION, ROURKELA STEEL PLANT.
- I successfully worked with a team of 4 as the **group leader** for the project.
- The project included a detailed study of high voltage transformers, transformer insulation oils, and Nitrogen induced Fire Protection System, amongst other topics.
- The study resulted in us providing valuable input on substitute insulation oils for the transformers that can be used to improve efficiency and decrease risk of overheating.
- Apart from our project related departments, we also visited other departments in the steel plant along with the staff engineers for a detailed knowledge of the working of the steel plant.

WINTER TRAINEE | AIMIL LTD., OKHLA, DELHI | 15TH DEC, '15 – 10TH JAN, '16

I did a project on **"A COMPREHENSIVE STUDY OF COMPUTER CONTROLLED HYDRAULIC TRIAXIAL TESTING SYSTEM AND ITS COMPONENTS & ANALYSIS OF FUNCTIONING OF THE 40L PAN TYPE CONCRETE MIXER AND SUGGESTIONS FOR IMPROVEMENT"**. The project was completed under the guidance of Mr. Sanjay Gupta, GM, AIMIL Ltd. It included a detailed study of the triaxial testing system and its components, compared the components that were being researched. I also provided crucial input on the designs of the concrete pan mixer. I learnt a lot of new things during my training at the company and successfully nurtured and applied the knowledge I gained.

Extra-curricular Activities

JOINT SECRETARY, MUSIC CLUB, BITS PILANI

- Post holder of Joint secretary for 5th semester (Aug 2015 – Dec 2015)
- Member of the music society of BITS Pilani since my 1st semester (Aug 2013 – Dec 2015)
- Represented college in many college cultural events.
- Successfully managed responsibilities for club activities such as farewell, competitions, concert nights etc.

ASSOCIATION FOR COMPUTING MACHINERY

- General Body Member of the Association for Computing Machinery for 2013-2014.

BASKETBALL, INTRA BITS SPORTS TOURNAMENT

- Member of the Basketball team representing Gandhi Bhawan at iBOSM 2014.

HOBBIES

- I like to read and gather information about new technological advancements in mechanical and science sector.
- I have keen interest in automobile design sector, but I also like designing products, machines and simulations using CAD softwares.
- I am an enthusiastic musician, proficient in playing guitar, bass guitar and drums. I also like to compose my own music on softwares such as Acoustica Mixcraft, Ableton and EZDrummer etc.