

# VISHAL NAGARKOTI

1301ME44 - B.Tech, 3rd year  
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## EDUCATION

EXAMINATION	UNIVERSITY/BOARD	INSTITUTE/SCHOOL	YEAR	CPI/%
Graduation	IIT Patna	IIT Patna	2013-17	8.46(till 4th sem)
Intermediate/+2	CBSE	Kendriya Vidyalaya Haldwani	2013	95.6%
Matriculation	CBSE	Kendriya Vidyalaya Haldwani	2011	10

## RESEARCH PROJECTS

1. Re-evaluated the results obtained in the research paper "SIMULATION OF COMBUSTION AND EMISSION CHARACTERISTICS IN A DUEL FUELLED DIESEL ENGINE" in research internship at **IIT Guwahati** under Prof. Ujjwal K. Saha. **Summer 2015**
2. Simulation analysis of "IMPROVING THE PERFORMANCE OF A BIOGAS POWERED **DUAL FUEL DIESEL ENGINE** USING EMULSIFIED RICE BRAN BIODIESEL AS **PILOT FUEL** THROUGH ADJUSTMENT OF COMPRESSION RATIO AND IGNITION TIMING" in **Ansys Fluent 15 using ICE module** under Prof. Ujjwal K. Saha(IITG). **Ongoing**

## TRAINING AND PROJECTS

1. One month industrial **training** at **Uttarakhand Transport Corporation Workshop**, Kathgodam learning whole mechanism, assembling, disassembling of Tata, Ashok Leyland buses and their parts, got the certificate of excellence from the UTC RM. **Summer 2014**
2. **SAE BAJA 2014-15** - Member of the Brakes Department of the team which fabricated an all terrain vehicle, got selected in the virtual round as one of the two IITs. Manufactured the vehicle and participated in SAE BAJA 2015 event held at Indore, India **Winter 2014**
3. **Designed and developed an inverter circuit at home that produced 100W energy.** **Summer 2014**

## INTEREST AREAS

- **IC engine** and Gas turbine efficiency.
- Curiosity for the idea of Hybrid vehicles and electric cars.
- **Alternate fuels**
- Oil Tribology

## TECHNICAL SKILLS

### • EXPERIENCE WITH MACHINES

- ❖ Fuel Injection Pump Test Bench, Kirloskar Engine Test Setup, CNC milling and lathe, Lathe machine, Grinding machine, Ultrasonic Machine, Electrical Discharge Machine, Laser Cutting Machine, Optical Micro Scopes, Welding Machines.

### • SOFTWARE SKILLS

- ❖ Softwares - SolidWorks, AutoCAD, Ansys Fluent 14, Ansys ICE 15, Adams, MS-Office, Labview.
- ❖ Programming Skills - C, C++, Java (OOPS), MATLAB, MySQL, HTML.

## SCHOLASTIC AWARDS AND ACHIEVEMENTS

- Qualified Junior Mathematics Olympiad 2011 conducted by KVS, and attended **INMO preparatory camp**.
- Qualified **IGNOU-UNESCO 2011 examination**, awarded certificate as stood in top 1000 among 7 SAARC countries.
- Represented my school at national level in Mathematics quiz competition conducted by KVS in 2012.
- Appointed as the *school captain* for the session 2012-13.
- Awarded merit certificate by Kendriya Vidyalaya Sangathan for academic excellence.

## **POSITIONS OF RESPONSIBILITY**

- Worked with a **start-up** named *Petals and Sepals* as the Operational President for the Patna Chapter of the start-up.
- Sub- Coordinator of Technical team of Anwasha 2K15(Annual Fest of IIT Patna).
- Mess Secretary of GBH Hall at IIT Patna.
- Player of the basketball sports team of IIT Patna.

## **PERSONAL INFORMATION**

- About Me - *Enthusiastic, innovative, responsible, Leadership qualities.*
- Date of Birth - 12.10.1995
- Home Address - Ashok Vihar, Vill. Dhaulakhera, P.O. Arjunpur, Haldwani, 263139, Nainital, Uttarakhand, India.