



Aashish Subhash Sarpe

UG Third Year, Mechanical Engineering (B.Tech)
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OBJECTIVE

Seeking an opportunity to learn new skills and application of my knowledge and technical skills in an institution/industry which is innovative, disciplined, resourceful and student friendly.

EDUCATION

Education Details	Board	Institute	CPI/%	Year
UG(B.Tech) (Till 4 th Semester)	IIT Patna	IIT Patna	7.50	2013-(Up to present)
Intermediate (+2)	Board of Intermediate Education, Andhra Pradesh	Shivam Junior College	87.9%	2012
Matriculation	SSC (Maharashtra Board)	Gyan Mata Vidya Vihar	90.4%	2010

*CPI indicates Cumulative performance index on a scale of 10.

ACHIEVEMENTS

- Secured 5th rank in the design event held in HPVC, 2015 (Human powered vehicle Challenge) organized by ASME (American society of Mechanical Engineers) and bagged 19th position all over India in the main event.
- Won the Robowars competition organized in CELESTA (Technical Fest) of IIT Patna.
- Secured 2nd rank in Death race competition organized in CELESTA of IIT Patna.
- Secured 54th rank in virtual round all over India of SUPRA, 2015 organized by SAE India (Society of Automotive Engineers).

MAJOR PROJECTS UNDERTAKEN

Human Powered Vehicle Challenge, 2015:

Guide: Dr. Atul Thakur, Department of ME, IIT Patna.

- Successfully designed a short wheel recumbent bicycle which ensures good comfort and better handling characteristics.
- Worked in the chassis design department.
- Made chassis design using Catia.
- Performed a detailed analysis of forces acting on the entire chassis using Ansys.

SUPRA SAE India, 2015:

Guide: Dr. Manabendra Pathak, Department of ME, IIT Patna.

- Successfully designed and fabricated a F1 racing car using sound engineering principles.
- Worked in the suspensions department.

Renewable Energy Generation System:

Guide: Dr. Probir Saha, Dr. S S Panda, Department of ME, IIT Patna.

- Developed an energy system that works underground.
- It utilizes the energy of the moving vehicles to generate electricity using the principles of Fluid mechanics.

Turbine Film Cooling:

Guide: Dr. Manabendra Pathak, Department of ME, IIT Patna.

- Study of the turbine film cooling technology and modelling of films on turbine blades using Ansys.
- Optimization of different parameters involved to ensure better film cooling.

Line follower robot:

- Team leader for the Breakout robotics event in Techniche, Technical Fest at IIT Guwahati.
- Designed and fabricated a robot that could follow a path and sense obstacles in its way using Arduino Microcontroller.

Wireless soccer robot:

- Designed and fabricated a wireless robot using Arduino Microcontroller and RF module.
- Participated in Robokick event in Techniche, Technical Fest at IIT Guwahati.

TOPICS OF INTEREST

- Fluid Mechanics: Aerodynamics, Computational fluid dynamics.
- Thermodynamics: Refrigeration and air conditioning, Vapour power cycles, IC Engines.
- Heat and Mass Transfer.
- Material Science.
- Automobiles.

TECHNICAL SKILLS

Programming languages: C, Java, MATLAB.

Application softwares: AutoCAD, ANSYS, CATIA, LabVIEW, Pro-E, Solid Works.

General softwares: Microsoft Office, Adobe Photoshop.

Manufacturing processes: CNC Lathe, CNC Mill, Wire-EDM, Arc welding, MIG welding, Rapid Prototyping, Ultrasonic machining, Laser beam machining, Gear fabrication.

EXTRA-CURRICULAR ACTIVITIES

- Won gold medals in 100m and 200m sprint races held in athletic competitions at school level.
- An active member of SCME (Students council of mechanical engineers) and SAE clubs at IIT Patna.

DECLARATION

I hereby declare that all the information give above is true to the best of my knowledge.

(Aashish Sarpe)