

Amritansh Ranjan

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EDUCATIONAL DETAILS

Name of Institution	Name of Course/Board	Year of Passing	Percentage/ CGPA
Birla Institute of Technology, Mesra	ME- Aerodynamics	2019	7.37
Shiv Nadar University	B. Tech- Mechanical Engineering	2017	7.21
D.A.V Public School, Gaya	Higher Secondary School (Central Board of Secondary Education)	2012	76%
Creane Memorial School, Gaya	Senior Secondary School (Central Board of Secondary Education)	2010	9.6

PROJECTS UNDERTAKEN:

- Unsteady pressure analysis of an Axisymmetric supersonic air Intake (Aug 2018 – May 2019)

Computational Fluid Dynamic of Axisymmetric Intake using Fluent software. Design and Fabrication of an axisymmetric intake model and performing experimental analysis in wind tunnel and validating data with computational results.

- Development of Cascade Refrigeration System (Jan 2017- May2017)

A prototype of a Cascade Refrigeration System using R-134a and R404a refrigerants designed and assembled to achieve low temperature. Several tests performed on this prototype to find the COP of this prototype.

- Line Follower and Obstacle Remover ROBOT

Designed a prototype of line follower robot is a robot which follows a fixed path. The robot contains sensors and microprocessors to gather information about the environment like distance from the obstacle and size, into digital signals.

- Proton Exchange Membrane Fuel Cell

Detailed research on Proton Exchange Membrane Fuel Cell. PEMFCs working and applications like car engine and portable chargers.

INTERNSHIPS/PROFESSIONAL EXPERIENCE

- Voltas 9th May-15thJune,2016

Intern at Design Department of Voltas, worked on project 'Heat Load Calculation in HVAC system'. Heat load calculations are used to accomplish objectives like information for equipment selection, system sizing and system design.

- Bharat Heavy Electricals Ltd, Haridwar 20th May-1stJuly,2015

Part of an internship and mentorship program which involved understanding of Boilers and its manufacturing.

TECHNICAL PROFICIENCY

- Design software like CATIA and Solid Works, CFD using ANSYS Fluent, Tec plot, MATLAB

AWARDS AND RECOGNITION

- Selected till regional level in 10th Science Olympiad
- Participated in science exhibition and made model of waste water treatment plant.

ELECTIVES

- Boundary Layer Theory, Computational Aerodynamics, Computational Fluid Dynamics, Operational Research, Refrigeration and Air Conditioning, Solar energy and Technology, Finite Element Analysis, Genetic Algorithm