

Rushit Virani

Bachelor of Technology(Hons.)(Pre-Final Year)
Department of Mechanical Engineering
Indian Institute of Technology Ropar
Contact: +91 9779995634

Address: room no , Hostel
IIT Ropar, Nangal Road, Rupnagar.
Email: 2015meh1111@iitrpr.ac.in
rushitvirani16@gmail.com

EDUCATION

2017-Present	B.Tech(Hons.) in Mechanical Engineering, IIT Ropar CGPA: 7.71/10.
2015	Intermediate(12th Standard), Central Board of Secondary Education(CBSE) Board Percentage-90%.
2013	Matriculation(10th Standard), Indian Certificate for Secondary Education(ICSE) Board Percentage-90%.

EXPERIENCE & TRAINING

May-July 2017	Development of corrosion resistant surfaces via friction stir processing for bioimplant applications.
June-July 2016	Industrial internship in Multinational Company named Jyoti CNC Automation Ltd. in the summer vacation of AY15-16 under the guidance of Mr. Vincent Dabhi. Practical Knowledge about manufacturing from making a model of a CNC machine in creo and in its simulation in hypermesh in the R&D Department to casting in the foundry department and finishing of the casted product in the machine shop until its assembly.

ACADEMIC PROJECTS

Jan-Apr 2017	Material Characterization through X-Ray Diffraction and SEM & AFM. Advisor: Dr. Ravi Mohan Prasad, Assistant Professor, IIT Ropar , India. Understood the working of the XRD and SEM machine with its components and their functions. Performed graphical analysis using PANalytical software on various samples including the process of Ball-milling and the consequent broadening of X-ray spectra.
Mar-Apr 2017	Fabrication and Characterization of Hair Reinforced Composites The Project aimed at using Hair to make FRP (fiber reinforced polymer) composites. Composites with different weight percent were made and their true stress-strain graph(found using Universal Testing Machine) were compared to find a relationship between Maximum tensile strength and Weight percent of Hair.
Jan-Apr 2017	Modeling and Fabrication of a Mini Portable Hybrid Power Generator The project aimed at manufacturing a small product that can be used to produce electricity either using Wind or moving water. The product was designed for specific user's like Trekker's that usually do not have a source of power. The product consisted a dual mechanism that produce electricity for two different pairs of torque and speed.
Jan-Apr 2016	Modeled and Fabricated a Stair climbing cart that can be used to move goods up the stairs by using three wheels in such a way to produce rotatory motion that can easily be used to go up the stairs was done under the guidance of Sir Anshu Dhar Jayal.

SKILLS & RELEVANT COURSEWORK

CAD Software's	Solid works, Creo, Abaqus.
Languages	HTML&CSS, C, C++, Java, Latex.
Software's	Matlab, Origin, Opensim.
Courses	Material Science & Engineering, Mechanics of Materials, Advanced Material Characterization Techniques, Theory of Machines, Energy Science & Technology, Classical Mechanics, Fluid Mechanics, Engineering Mechanics, Product Design and Realization, Molecular Cellular & Tissue Biomechanics.

ACHIEVEMENTS, POSITIONS & MEMBERSHIP

April 2017	Active member of SAE (Society of Automotive Engineers) India and SAE IIT Ropar Collegiate club.
March 2017	Main Co-ordinater with the media team, MTV that covered the annual cultural fest of IIT Ropar, held in March 2017
February 2016	Member of Event Management Team of 'Zeitgeist' , annual cultural fest of IIT Ropar, held in Feb 2016
September 2015	Member of the Editorial Team of College Magazine 'KSHITIJ', of IIT Ropar from September 2015 to September 2017.
August 2015	Active member of Society of Mechanical Engineers(SME), IIT Ropar. Attended various professional talks under SME. Elected as the Batch Representative of SME from August 2015 to August 2016.
June 2015	Cracked IIT-JEE (Indian Institute of Technology Joint Entrance Exam) with All India Rank 4544 out of 1.3 million aspirants(Percentile of 99.65%).