

QUALIFICATION	INSTITUTION	YEAR OF PASSING	SCORE
B.Tech (Mechanical Engineering)	Indian Institute of Technology Patna, Bihar	2016	CPI – 8.4
XII	Emerald Heights International School, Indore - CBSE	2012	93.4 %
X	Choithram School, Indore – CBSE	2010	CGPA – 9.6

WORK EXPERIENCE AND PROJECTS

Research Intern - Indian Institute of Science, Bangalore <i>Guide: Prof. Satish Vasu Kailas, Madhu HC (Research Scholar), Surface Interaction and Manufacturing Lab, IISc Bangalore</i> <ul style="list-style-type: none">Optimized the plunge stage in friction stir welding of Al-2024-T351 alloy sheets with tapered tool using gradient approach.Developed a numerical model for the process in Deform 3D V 6.1 with the optimized process parameters using Lagrangian Incremental Formulation, Johnson and Cook Flow Stress Model and Coulomb's Law of Friction.Validated the numerical model with experimentally measured temperatures.	May – Jun '15
SAE BAJA INDIA 2015 (All-Terrain Vehicle) <i>Guide: Dr. Akhileendra Singh, Dr. Mayank Tiwari, Department of ME, IIT Patna</i> <ul style="list-style-type: none">Designed ergonomic Steering System in SolidWorks, performed failure analysis of Tie-Rod & Knuckle in ANSYS.Analyzed High Speed Cornering using MATLAB. Cleared the Virtual Design Round being the only team from Bihar.Gained lots of hands-on-experience working in a team to complete the Fabrication and Testing of the vehicle.	July'14 – Present
Industrial Intern - CNH Industrial, Pithampur <i>Mentors: Mr. Amit Tiwari (Sr. Manager) & Mr. Ramesh Kumar, Maintenance Department, CNH Pithampur</i> <ul style="list-style-type: none">Studied in-detail functioning of Fabrication, Assembly Line and Paint Shop of Back Hoe Loaders and Vibratory Compactors.Learnt about World Class Manufacturing (WCM) Techniques, KAIZEN, 5S, SOP and their applications.	Jun – July'14
Rotating Fixture for Wire-EDM <i>Guide: Dr. Probir Saha, Dr. S.S Panda, Mr. Sanjeev Maithy, Department of ME, IIT Patna</i> <ul style="list-style-type: none">Designed & Fabricated Rotating Fixture capable of rotating workpiece for machining in different planes for Wire-EDM.	Feb'14 – Mar'14
ASME Human Powered Vehicle Challenge 2014 <i>Guide: Dr. Sawan Suman, Dr. Akhileendra Singh, Dr. Mayank Tiwari, Department of ME, IIT Patna</i> <ul style="list-style-type: none">Designed the USS Steering System using cross-dual-link mechanism and Ackermann Geometry in Auto CAD 2014.Fabricated the Human Powered Trike along with the team of 11 members & stood AIR 10 in the competition held at IIT Delhi.	Nov'13 – Jan'14
Wireless Air Cushion Vehicle <ul style="list-style-type: none">Designed and fabricated a wireless hovercraft using Arduino and Bluetooth Shield (for wireless communication).Participated in Hover race Robotics Event in Techniche, Technical Fest at IIT Guwahati.	July'13 – Sep'13

ACHIEVEMENTS
<ul style="list-style-type: none">KVPY Scholar (Kishore Vaigyanik Protsahan Yojana) - received a call-letter from IISc, Bangalore to pursue B.S with fellowship.Secured AIR 4845 in IITJEE 2012, AIR 2322 in AIEEE 2012 and AIR 73 in National Science and Talent Search Examination 2011.CBSE Certificate of Merit in English - for being in top 0.1% of the candidates passing in 2012.Best Mechanical Design, Hydraulic Robotic Arm Competition – conducted in First Year, IIT Patna.

POSITIONS OF RESPONSIBILITY
<ul style="list-style-type: none">Placement and Internship Coordinator - Training and Placement Cell, Mechanical Department, IIT Patna.Technical Events Organizer - Anwsha'14, Celesta'13: Hydraulic Robotic Arm, Trebuchet Competitions.Task Manager, Start-up Relations - Entrepreneurship Club, IIT Patna.

TECHNICAL SKILLS
<ul style="list-style-type: none">Software Tools - Deform 3D, SolidWorks, Auto CAD, Pro-E, ANSYS, Flowex, MS Excel, LaTeXProgramming Languages - C/C++, Java, MATLAB, Lab View.

INTEREST AREAS
<ul style="list-style-type: none">Manufacturing, Automobiles, Renewable and Sustainable Energy, Machine Design, Solid Mechanics.

EXTRA CURRICULAR ACTIVITIES
<ul style="list-style-type: none">Lead Guitarist, College Band – Half Step Down, performed live during the college cultural festival Anwsha'14 & '15.