Ajeet Singh Rajput
IIT Roorkee, 247667
Uttarakhand, India

Contact:
ajeetrajput99@gmail.com
+917983734306

Curriculum Vitae

Area of Interest:

Thermodynamics, IC Engine, RAC, Strength of Materials, Materials Science, Artificial Neural Network Modelling, Materials Characterization

Personal Details:



Name:	Ajeet Singh Rajput
Father's Name:	Ashok Kumar
Permanent Address:	A1, Adarsh Nagar, Najibabad, District - Bijnor, 246763
Local Address:	F25, GP Hostel, IIT Roorkee, Roorkee,247667
Phone:	+917983734306
E-Mail:	ajeetrajput99@gmail.com
Date of Birth:	18.02.1992
Gender:	Male

Educational Qualifications:

Since 2019	Research scholar (PhD) in Metallurgical and Materials Engineering Department, **Indian Institute of Technology Roorkee**
2014 - 2016	Master's (M. Tech. in Industrial Metallurgy) from **Indian Institute of Technology Roorkee**, India **CGPA: 8.912/10**
2009 - 2013	Bachelor's (B.Tech. in Mechanical Engineering) from **BBDNITM, Lucknow**, India **Percentage: 81.0 %**
2008	Intermediate (XII) from MDS Inter College, Najibabad (U.P.Board) **Percentage: 73.4 %**
2006	High school (X) from MDS Inter College, Najibabad (U.P.Board) **Percentage: 69.83%**

Experience:

2017 - 2019	Worked as Assistant Professor in NIIT Najibabad
2016 - 2017	Employee for MicroMan Project (Mechanical Engineering) at Technical University, Chemnitz, Germany

Academic Distinctions:

Marie Curie Scholarship Holder: Awarded Marie Curie Scholarship for MicroMan Project in TU Chemnitz, Germany

DAAD Scholar: Awarded DAAD Scholarship (From 01/09/2015 to 31/03/2016) for Master's Thesis in Institute of Ferrous Metallurgy (IEHK), RWTH University, Aachen, Germany under guidance of **Prof. Wolfgang Bleck.**

Projects:

Study of dry sliding and abrasive wear behaviour of carbide free bainitic steel (July 2019 to present)

MMED, IIT Roorkee, India

The aim of present study is to understand the effect of different parameters of sliding and abrasive wear on the microstructure evolution and wear properties of a carbide free bainitic steel.

Development of technology for Plasma electrolytic Polishing of stainless steel by analysis and optimization of process parameters (15/06/2016 to 31/05/2017)

Technical University, Chemnitz, Germany

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Influence of Hydrogen on Delayed Fracture in High Manganese TWIP steels and other AHSS (01/09/2015 to 31/03/2016)

Dr. Wolfgang Bleck (IEHK, RWTH University, Aachen, Germany) & Dr. P.K.Ghosh (MMED, IIT Roorkee, India) by DAAD-IIT Master's Sandwich Program

The aim of the work is to analyze in each TWIP, DP or TRIP the initiation as well as the growth of H induced cracks. For this purpose, delayed fracture characterization will be carried out by slow strain rate tests and deep drawing tests after hydrogen charging.

Model of Four Wheel Steering System (6 Months)

Department of Mechanical Engineering, BBDNITM, Lucknow

Four wheel steering provides a means to actively steer the rear wheels during turning maneuvers. It increases vehicle stability while maneuvering at high speed or to decrease turning radius at low speed.

Internship Information:

Purple Leap, Bangalore

PLM (Product Life Cycle Management) (18/06/2012 to 31/07/2012)

Machine element design using CAD.

Carriage And Wagon Workshop, Lucknow

Summer Vacation Training (20/06/2011 to 16/07/2011)

Periodic overhauling of coaches and wagons.

Inspection and Maintenance of roller bearings used in coaches and wagons.

Inspection and Maintenance of wheels and axles.

Skills and Achievements:

Software Skills: Thermo-Calc, MS Office, Origin, ANSYS Workbench, Auto CAD, Solid Works

Language Skills: English (Professional Proficiency), Hindi (Native Language), German (Beginner)

Extra Curricular: Attended 12th International Symposium on Electrochemical Machining Technology (INSECT 2016), Europe

Attended Project Management workshop at TU Chemnitz, Germany

Participated in MS&T23 International conference, USA

Participated in11th international conference on Industrial Tribology (ICIT)

Research Publications:

Ajeet Singh Rajput, Sourav Das, "A machine learning approach to predict the wear behaviour of steels", in Tribology International, Elsevier, 2023

Ajeet Singh Rajput, Henning Zeidler, Andreas Schubert, "Analysis of voltage and current during the Plasma electrolytic Polishing of stainless steel", in Conference Proceeding, NA, 2017

S. Mandal, P. Ghosh, **Ajeet Singh Rajput**, S. Yadav and A. Haldar, "Microstructure and property evolution during tempering of a medium carbon bainitic steel" in Materials Science and Technology,2024

Personal Competencies:

Good listener and quick learner, Motivator, Punctual and Laborious, Positive thinker

Interest:

Sport: Badminton, Carrom Board

Hobbies: Listening music, Singing, Dancing, Travelling