



# AMIT JADAUN

## ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	M.Tech in Engineering Analysis & Design	Indian Institute of Technology, Delhi	8.743
2011	CBSE	Alpine Public School Khurja	91.80
2009	CBSE	Alpine Public School Khurja	82.00

## DEGREES PRIOR TO IIT

Year	Degree	Institute	GPA / Marks(%)
2016	B.Tech	Ajay Kumar Garg Engineering College, Ghaziabad	78.28

## IIT DELHI THESIS

**Title:** Design and Analysis of Miniscrew Implant Supported Bi-Helix Appliances (MISBA) for asymmetric maxillary expansion for correction of true unilateral posterior crossbite

**Supervisor:** Prof. Gaurav Singh, Department of Applied Mechanics, IIT Delhi

**Description:** To investigate the effect of miniscrew implant using FEA by analyzing stress and displacement of the maxilla and teeth and stress distribution over the implant.

- Design iterations to obtain optimum geometry of implant.
- Fabrication and testing of implant to validate findings of FEA simulation.
- **Modelling** and **Finite Element Analysis** for Implant are done using SOLIDWORKS and ABAQUS respectively.

## PROJECTS

- **Material Selection for Walker-cum Chair**, IIT DELHI (Aug,2019-Nov,2019)
  - Material with enhanced properties as substitute to the existing material was suggested using **CES EduPack software**.
- **Design of a lightweight Walker-cum Chair**, IIT DELHI (Aug,2019-Nov,2019)
  - Proposed modifications in the design of walker enabling it to be used as chair too.
  - Developed 3D model of the product using SOLIDWORKS.
- **Design of rickshaw seat** for sleeping purpose, IIT DELHI (jan,2020-apr2020)
  - Proposed modification in the design of existing rickshaw seat for need of rickshaw pullers who want to take rest during lunch time or free time.
- **Design and Fabrication of Pressure Vessel**, AKGEC, Ghaziabad (Jan,2016 - May,2016)
  - Using **ANSYS,ASME Code** and theoretical calculations the stresses were calculated in the solid wall and the head of vessel.

## INDUSTRIAL TRAINING

**Micromatic Grinding Technologies Ltd.**, (June,2015 - July,2015 )

- **Department-** Assembly Department
  - study and analyse the various processes done by **CNC** machines.

## TECHNICAL SKILLS

- Solidworks, Abaqus, MATLAB, CSE EduPack, Ansys, LabView

## SCHOLASTIC ACHIEVEMENTS

- Secured AIR 500 (99.64 percentile) out of 137826 appearing candidate in GATE
- Topper of School/City in 12th Board Exam

## EXTRA CURRICULAR ACTIVITIES

- Participated in the training program on SE(SolidEdge)-Fundamentals conducted by SIEMENS (16june2014-25june2014)
- Participated in 3rd International Mathematics Olympiad conducted by Science Olympiad Foundation (Feb,2010)

## POSITIONS OF RESPONSIBILITY

- **Class Representative** of B.Tech Mechanical Engineering (Aug,2012 - May,2016)
- Volunteered for various fest events in my B.Tech college
- **Teaching Assistant** during my M.Tech.



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## IIT COURSE

<b>Degree</b>	<b>Institute</b>	<b>CGPA</b>
M.Tech in Engineering Analysis & Design	Indian Institute of Technology, Delhi	8.743

## COURSES DONE

Design Methods, Continuum Mechanics, Experimental Methods For Solids & Fluids, Engineering Mathematic & Comp., Properties & Sel. Of Engg Mat., Control Engineering, Applied Elasticity, Finite Element Method, Planar Contact Mechanics, Product Design Project 1, Computer Aided Design, Major Project Part-i