



Kshitiz Singhal
Mechanical Engineering
Indian Institute of Technology, Bombay

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B.Tech.
Gender: Male
DOB: 25-02-1999

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	

PROFESSIONAL EXPERIENCE	
Lear Corporation IEC SEATING ENGINEERING DIVISION [Apr'20-Jun'20]	<i>Bestowed the Excellence award and Received a Letter of Recommendation for outstanding performance;</i> <ul style="list-style-type: none"> Improved the design guideline with material selections and load calculations for a plastic retention clip Reviewed the existing knowledge base on Cantilever Snapfits using Euler-Bernoulli Beam theory Developed and cross-referenced an E-Calculator for theoretical strain, deflection and force calculation Increased the accuracy of theoretically calculated results for assembly and retention forces by 300% Awaiting validation with physical sample testing for global implementation across the corporation
Hero MotoCorp Limited [Jun'19]	<ul style="list-style-type: none"> Worked on Operations in Supplier Quality Assurance studying the frame body supplied by vendor Badve Suggested improvements in vendor production; ensured implementation to reduce defects by 75% Reduced the frame-body defects, increasing the straight pass percent at Hero production line by 1.5%
Setco Automotive Limited [May'19]	<ul style="list-style-type: none"> Studied product manufacturing assembly and identified the productivity steps requiring optimization Improved productivity in press shop and assembly line by changing flow of materials using TPS and reducing Muda of over travel by changing the workflow layout and Kaizen at various steps
APLI.AI [May'20-Jul'20]	<ul style="list-style-type: none"> Estimated a market size of USD 1.2 bn for India's campus placement industry as a startup consulting project Computed total addressable market, serviceable available market & serviceable obtainable market
Neel Metals Products Ltd. [Jun'18]	<ul style="list-style-type: none"> Studied various lines of Process and Machinery used in different stages for manufacturing of body panels Studied the effect of labour efficiency on the costs of operations affecting the daily total costs of production Analysed the key steps of manufacturing in the production line affecting the profits of the plant

LEADERSHIP ROLES	
President & Senior Consultant SHARE, IIT BOMBAY [Apr20-Present]	<i>Global student strategy consulting program consisting of 1000+ members from 50+ top universities across the world</i> <ul style="list-style-type: none"> Providing corporate exposure, building leadership and enhancing soft skills through practical experience Designed a pan-India fundraiser public policy competition with a target participation of 20k+ students Worked on business challenges as well as on social problems, mentored by leading business executives Recognised upcoming key-players in India's clean energy sector, understanding the current national plan to achieve 100% green energy supply and analysing its feasibility, outcomes and shortcomings
Teaching Assistant BIOSCIENCES DEPT. [Spring'20 & Autumn'18]	<ul style="list-style-type: none"> Part of a 20-member team appointed for the post of Teaching Assistant for the fundamental biology course Tutored 40+ students and conducting weekly tutorials to clear concepts and discuss solutions to problems Evaluated student performance periodically and learning teaching tactics by collaboration with instructor
Marketing Manager UNMESH MASHRUWALA INNOVATION CELL [May'19-Dec'19]	<ul style="list-style-type: none"> Part of a team of 6 to pursue the marketing budget (INR 3 million) required by the team for technical projects and participation of the team in various global competitions like RISE, ASME and IARC Contacted vendors and sponsors for procurement of assets in terms of components, monetary funds and other team requirements including team t-shirts and sponsorship stickers
Convener CFA CLUB, IIT BOMBAY [Apr'18-Mar'19]	<ul style="list-style-type: none"> Part of a 6 membered team, responsible to promote classical and folk arts culture in the institute, managing an overall budget of INR 10 Lakhs: for 30+ events in the year catering to 10,000+ students and faculty Spearheaded a 3-day professional concert, Virasat by 6 renowned artists, featured in Asia news, TOI

ENGINEERING EXPERIENCE	
Junior Design Engineer IIT BOMBAY RACING [Oct'18-Feb'19]	<ul style="list-style-type: none"> Supported in testing, characterization & manufacturing of Fiber Reinforced Polymer sheets via Resin Infusion Assisted in manufacturing a 5-sided Accumulator using FRP material for the 1st time in the team using resin infusion resulting in 33% weight reduction compared to previous year and achieved a high tolerance of 1mm Studied Sandwich manufacturing and worked on test panels for optimization of resin infusion process
Tool Design COURSE PROJECT [May'19-Nov'19]	<ul style="list-style-type: none"> Investigated the impact of tool design on parameters of ECM including rate of machining & exit diameter Developed an analytic model of the rate of machining for a reverse-tapered tool & verified the results via experimental investigation of an in-house manufactured reverse-tapered tool against a standard tool

ACCOLADES & EXTRACURRICULARS	
Scholastics	<ul style="list-style-type: none"> Received the Institute Academic Award for outstanding performance, obtaining SPIs of 9.5 & 10 [’20] Secured AIR 89 in JEE-Mains and AIR 564 in JEE-Advanced [’17] Awarded the prestigious Kishore Vaigyanik Protsahan Yojana Fellowship by Govt. of India [’16] Among the National Top 1% students in National Standard Examination in Physics and Chemistry [’16]
Culturals	<ul style="list-style-type: none"> Awarded the honorary title of Mr. Fresher out of 1000+ fresher entrants by the Lifestyle Club [’17] Received the Color award for exceptional performance & contribution towards culturals by the hostel [’20] Secured the 1st position and Best Editing award in Sophomore Film General Championship [’18]
Sports	<ul style="list-style-type: none"> Goalkeeper for the team that won Gold Medal in Inter-Hostel Freshers Hockey event of Raftaar [’18] Part of the team that won Gold Medal in Sophomore Hockey General Championship [’18]

Scholastic achievements and extracurricular activities are not verified by the Placement Cell