

# RUSHIKESH DIXIT

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## EDUCATION

<b>Indian Institute of Technology (IIT)</b> Bachelor of Technology (B.Tech) : Electrical Engineering GPA: 8.17	Dharwad, Karanataka (KA) August 2018 - Present
<b>BSP Senior Secondary School</b> Higher Secondary School (CBSE) : Science and Maths Percentage: 90.2%	Bhilai, Chhattisgarh (CG) April 2015 - March 2017
<b>BSP Senior Secondary School</b> High School (CBSE) : Science and Maths GPA: 9.4	Bhilai, Chhattisgarh (CG) April 2013 - March 2015

## PROJECTS

<b>FORMULA STUDENT : Powertrain Team Lead</b> <i>INGENE Motosports IIT Dharwad</i>	Dharwad, KA April 2019 - Present
<ul style="list-style-type: none"><li>Planned and designed differential gear according to the selected engine.</li><li>Designed steering and pedal assembly under Formula Student norms.</li></ul>	
<b>DRONE SWARM : Object Detection and Communication Team Member</b> <i>Tech Team IIT Dharwad</i>	Dharwad, KA Dec 2019 - Dec 2019
<ul style="list-style-type: none"><li>Developed object detection system for swarm of drones.</li><li>Developed communication system for sharing real time location and information of detected objects among drones.</li></ul>	
<b>ERGONOMIC CRUTCHES : Design and Fabrication</b> <i>Dr. C Amarnath (Design and Engineering Workshop Instructor)</i>	IIT Dharwad, KA Feb 2019 - Feb 2019
<ul style="list-style-type: none"><li>Designed and fabricated ergonomic and unique crutches having the functionalities of changeable height and angle between auxiliary support and uprights with handy controls.</li></ul>	
<b>AUTOMATED RICE TRANSPLANTER : Bodyworks Team Lead</b> <i>Tech Team IIT Dharwad</i>	Dharwad, KA Dec 2018 - Dec 2018
<ul style="list-style-type: none"><li>Designed transplanting arm mechanism and sliding tray mechanism for keeping saplings.</li><li>Designed and fabricated chassis, gear train and transplanting arm for Rice Sapling Transplanter.</li></ul>	
<b>INFORMATION MANAGEMENT SYSTEM (IMS) : Developer</b> <i>Dr. Sandeep R B (CS 102 Instructor)</i>	IIT Dharwad, KA Oct 2018 - Oct 2018
<ul style="list-style-type: none"><li>Developed IMS with the functionalities of search &amp; lookup, adding, modifying and deleting entries for students, instructors and courses separately.</li></ul>	

## SKILLS

Programming Languages :	C, C++, Python, Verilog HDL
Modelling and Simulation :	MATLAB, Fusion 360, Solidworks, AutoCAD, SPICE
Frontend and Markup :	HTML, CSS, Bootstrap 4, LaTeX
Embedded Systems :	Arduino, Raspberry Pi, NodeMCU, ArduPilot, Pixhawk
Graphic Design :	Adobe Illustrator, Photoshop, After Effects, InDesign
Data Analytics :	Microsoft Excel, Google Sheets, R Language

## LANGUAGES

English, Hindi and Marathi

## AWARDS & RECOGNITIONS

- Bagged 4th Position at Inter IIT tech Meet 2019 under DRDO UAV Swarm Challenge (Drone Swarm)
- Bagged 7th Position at Inter IIT Tech Meet 2018 under TCTD Agricultural Innovation Challenge (Rice Sapling Transplanter)
- Under Top 0.57% of JEE 2018 (Mains & Advanced)
- Under Top 7% of CBSE Board Exam (AISSCE)
- Won 1st Position at Inter School Music Competition under Vocals for 3 consecutive years
- Won 2nd Position at Pepsi Football Championship (Bhilai)