Rushikesh Dixit

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Education

Indian Institute of Technology (IIT) Dharwad, Karanataka (KA)

Bachelor of Technology (B.Tech) : Electrical Engineering August 2018 - Present

GPA: 8.17

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| BSP Senior Secondary School | Bhilai, Chhattisgarh (CG) |
| Higher Secondary School (CBSE) : Science and Maths Percentage: 90.2% | April 2015 - March 2017 |
| BSP Senior Secondary School | Bhilai, Chhattisgarh (CG) |
| High School (CBSE) : Science and Maths GPA: 9.4  Projects | April 2013 - March 2015 |
| FORMULA STUDENT : Powertrain Team Lead | Dharwad, KA |
| *INGENE Motosports IIT Dharwad* | April 2019 - Present |

* Planned and designed differential gear according to the selected engine.
* Designed steering and pedal assembly under Formula Student norms.

DRONE SWARM : Object Detection and Communication Team Member Dharwad, KA

*Tech Team IIT Dharwad* Dec 2019 - Dec 2019

* Developed object detection system for swarm of drones.
* Developed communication system for sharing real time location and information of detected objects among drones.

ERGONOMIC CRUTCHES : Design and Fabrication IIT Dharwad, KA

*Dr. C Amarnath (Design and Engineering Workshop Instructor)* Feb 2019 - Feb 2019

* Designed and fabricated ergonomic and unique crutches having the functionalities of changeable height and angle between auxiliary support and uprights with handy controls.

AUTOMATED RICE TRANSPLANTER : Bodyworks Team Lead Dharwad, KA

*Tech Team IIT Dharwad* Dec 2018 - Dec 2018

* Designed transplanting arm mechanism and sliding tray mechanism for keeping saplings.
* Designed and fabricated chassis, gear train and transplanting arm for Rice Sapling Transplanter.

INFORMATION MANAGEMENT SYSTEM (IMS) : Developer IIT Dharwad, KA

*Dr. Sandeep R B (CS 102 Instructor)* Oct 2018 - Oct 2018

* Developed IMS with the functionalities of search & lookup, adding, modifying and deleting entries for students, instructors and courses separately.

Skills

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| 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 :  Languages | Microsoft Excel, Google Sheets, R Language |
| 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)