

Ritobrita

De



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Education

BTech (Biomedical Engineering) |
2020 | GPA:8.6/10

Class XII
Bhavan S G B Kanoria Vidya Mandir |
2015 | 88 %

Class X
Bhavan S G B Kanoria Vidya Mandir |
2013 | 10/10

Skills

Languages: Java, Python, C, C++,
MATLAB, SQL, Visual Basic, R, ROS

WebDev : HTML, CSS, JS, JQuery,
ReactJS, VB Script

Simulation : Arduino, Keil micro Vision

Design : Autodesk, Eagle, Multisim

Extra-Curricular

Public Speaking: Toastmaster
International Certified Competent
Communicator and Competent Leader

NGO: Helphen India Project Kinder

Languages

English, Hindi, Bengali, German

MOOCs

Numerical Methods with Python
Object Oriented Programming w/ Java
Data Structures and Algorithms:
Algorithmic Toolbox
Neural Networks and Deep Learning

Relevant Experience

Current	Research Intern	Center of Artificial Intelligence and Robotics, DRDO
	Embedded C programming of different gait patterns for a Quadruped Robotic Mule. Computer Vision project on fusion of lidar and camera point cloud data for generation of cost map for navigation using ROS.	
May-Jul'19	Summer Intern	SimYog Technology, IISC, Bangalore
	Developed web-app of an electrical schematic editor.	
May-Jul'18	Summer Intern	ABB Ability and Innovation Center, Bangalore
	Worked on automated testing of GUI and created a platform to execute batch files remotely in VMs.	
2017-'18	Electronics Engineer	Team RoverX, Creation Labs, VIT
	Designed and produced the electrical and safety systems of a prototype Mars Rover and participated in University Rover Challenge.	

Research and Projects

Nov-Dec'18	MEMS piezoresistive sensor
	Novel design with higher sensitivity and improved linearity.(Under review in Thomas Reuter indexed journal.
Oct-Nov'18	Amoe-Bot
	A robotic hand gripper bio-inspired from an Amoeba that can lift dissimilar objects and identify the shape based on pressure cues.
Jul-Dec'18	Mixed Reality Lab
	At VIT, we developed Mixed Reality guided hardware electrical labs to facilitate learning for the future students using Microsoft Hololens.
Aug-Oct'17	Object detecting autonomous rescue quad-copter
	An autonomous drone to investigate and manoeuvre nebulous surroundings made under the mentor-ship from IISC, Bangalore.
Aug-Nov'17	Posture Diagnostic Rehabilitative device
	IR sensor enabled device to detect and measure the extent of cervical, thoracic and lumbar spinal deformities.
Sept-Nov'16	Sleep Inducer
	Induces and monitors deep sleep in subject using delta wave resonance.

Achievements

2019-'17	Toastmasters International
	International Speech Contest(2019): Won club level and participated in area level contest. Humorous Speech Contest(2017): Won 3rd prize in club level contest.
May'18	University Rover Challenge
	Qualified amongst top 20 teams worldwide.
Jan'18	Coordinator - Indian Rover Challenge
	Started The Indian Rover Challenge, the only Asia-Pacific robotics space exploration competition of its kind in collaboration with the Rover challenge series of The Mars Society of USA.
Sept'17	Winner - Dover Think-OFest
	Augmented Reality enabled servicing and assembling of products.
Mar'17	VIT - Purdue Partnership Hackathon
	Show cased projects under Creation Labs, VIT and initiated collaborative projects.
2016-17	Merit Scholarship
	Scholarship for top performance in academics, VIT.
2010	National Science Olympiad
	Gold Medal (School Level)