RANDHIR SHAH

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OBJECTIVE

To get an opportunity where I can make the best of my potential and contribute to the organization's growth

EDUCATION

10+2(CBSE) | DLDAV MODEL SCHOOL, SHALIMAR BAGH, DELHI
2019 – 2020
82%

B.TECH (GGSIPU) | BHAGWAN PARSHURAM INSTITUTE OF TECHNOLOGY,DELHI
2020 – 2024
Undergoing

SKILLS

- C++
- Python
- Arduino/ESP/RASPBERRY PI
- Embedded System
- Problem Solving
- ROBOT OPERATING SYSTEM(ROS)
- Linux
- IoT
- ROBOTICS SYSTEM DESIGING
- Advance Excel
- Entrepreneurship

ACTIVITIES

- Leader of the team which won the grant of ₹10 lakh under the ATAL TINKERING LAB mission an initiative of NITI AAYOG.
- 1st position in ROBOCUP JR INDIA 2017(national) under rescue maze category.
- 1st position in ROBOCUP JR INDIA 2017(north region) under rescue maze category.
- Best presentation, best innovation titles in ROBOCUP INDIA for multiple years.
- National qualifier for many years in ROBOCUP INDIA nationals
- Best concept awards in TECHNOXIAN ALL INDIA competition.
- Awards in many school level robotics competition and tech fest.
- Selected participation in ALL INDIA science exhibition organized by Govt. of INDIA in IIT-D.
- Head of robotics of the school as well as innovation head of the tech fest of our school (HASH- it is rated as the best school tech fest in DELHI-NCR)
- Received letter of Appreciation from Dr. Nisha Peshin, Director (P.S II) and Director (Academics) for DAVCMC.
- Team Head of society for college robotics society(ELECTRONAUTS)
- Team Head of incubation center for college INSTITUTION'S INNOVATION COUNCIL(MINISTRY OF HRD, Govt. of INDIA)
- Conducted many workshops for other students in the field.

PROJECTS

- ANKEL PAD FOR BLINDS
  This project was based on ULTRASONIC SENSOR, ARDUINO NANO AND SMALL VIBRATING MOTOR, this pad has to be wearied on leg ankle whenever some obstacle is in front of the person he/she will feel vibration of the motor and get alert.
- MAZE SOLVING RESCUE ROBOT
  The Robot is designed to solve the maze with maximum coverage to focus rescue the victims. This robot was based on ARDUINO MEGA and ultrasonic sensor with multiple modifications in motor style. This ROBOT used many type of algorithm.
- Y250 RACING DRONE
  This Drone was based on Y250 racing drone frame with high KV Motors and CC2D Flight Controller as well as KK2.4 Flight controller.
- ANTI-THEIFT SECURITY SYSTEM
  This system is integrated with multiple level of security like door opening ALERT, force entry alert, Alerts are send via SMS with the use of GSM Module and this whole system is powered by multiple ARDUINO's which are interconnected with the help of I2C communication protocol to reduce workload on one unit.
- PID LINE FOLLOWER
  This robot is made for following line on the base of it with very high accuracy and high speed. This robot uses very complex PID Algorithm. This Project is powered by ARDUINO.
- MICRO MOUSE MAZE SOLVING ROBOT
  This robot is used to solve a maze in minimum time and uses combination of different algorithms. This Robot in powered by ARDUINO and I am working on AVR version of this.
- WATER QUALITY MONITERING SYSTEM WITH IoT
  The system measures multiple parameters(pH ,TDS ,Temperature , Turbidity) of water to determine the quality of water, the system is battery power and is designed for RO technicians, The system is connected is connected to internet and can be used via. Blynk IoT application on any mobile or PC remotely. The System is designed with ESP-8266.
- ANTI-SLEEPING GOGGLES FOR DRIVERS
  With the use of Infrared Sensor the blinking of eye is monitored, in case sleep is detected sound is generated to awake the driver to avoid accidents.
- BIOMETRIC ACCES CONTRAL LOCK WITH ATTENDENCE RECORDING
  With the use of optical fingerprint sensor, fingerprints are recorder and the compared to the data database for access control ,after opening the lock user id of the person is stored with the time and date stamped in a SD card, the data in the SD card can be shorted with queue in excel.