

Sangita Mahanti

Fresher

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Conspectus

- I am an Engineering graduate and am passionate about technology, have craving for learning new and innovative technologies.
- Experience in conceptualizing and implementing various projects in college.
- Possesses ability to handle multiple tasks & work in pressure.



Education & Qualifications

Qualification	CPI/Percentage	Institution/ (University/Board)
Bachelor of Engineering (BE) in Electronics and Telecommunication Engineering (ET&T)	CPI: 6.81	Government Engineering College, Raipur / Chhattisgarh Swami Vivekananda Technical University (CSVTU)
Indian School Certificate (ISC)	71.25%	Salem English School, Raipur / Council for the Indian School Certificate Examinations (CISCE)
Indian Certificate of Secondary Education (ICSE)	73.4%	Salem English School, Raipur / Council for the Indian School Certificate Examinations (CISCE)
Certificate in French Language	Awaiting Results	Center for Innovative Studies, Siliguri / University of North Bengal, Siliguri



Technical Skill Set

Operating System:	Windows 10 onwards
Languages:	Python, Java basics
Databases:	SQL
Software:	Multisim, EdWinXP software simulation, Proteus, Keil
Hardware:	PCB Designing, Arduino
Package:	MS Office (MSWord, MS Excel, MS Power Point).
Networking:	Internet TCP IP



Projects

Project Name	Alcohol detection system
Institute Name	Government Engineering College, Raipur, Chhattisgarh
Description	<p>The main purpose behind this project is “Drunk driving detection”. It is an MCQ3 Sensor based Alcohol Detection System. The main unit of this project is an “Alcohol sensor”. If the person inside the car has consumed alcohol then the sensor detects the alcohol and sends a signal to a comparator IC. The microcontroller connected to the comparator output gives high pulse to the buzzer circuit and then the buzzer starts beeping. At the same time a relay is turned off which will turn off the ignition of the car.</p> <p>We can also use this system as a breathing analyzer, which will detect consumption of alcohol by the employees in any organization. We can also implement the Alcohol detection system in public transports, public gatherings, and so on.</p>
Components Used	Alcohol Sensor, Arduino Uno, LCD Display, Buzzer, Relay

Project Name	Electrical theft detection system
Institute Name	Government Engineering College, Raipur, Chhattisgarh
Description	The purpose of this system is to detect an unauthorized tapping on distribution lines. Implementation area of this system is a distribution network of electrical power supply system. Existing system is not able to identify the exact location of tapping. This system actually finds out on which electrical line there is a tapping. This is a real time system. The theft of the electricity is the major concern of the transmission and distribution losses in the supply of the electricity worldwide. The most common type of electricity theft is via bypassing the poles. This system is utilized to overcome this type of the theft of the electricity. A recent research conducted indicates that about 30-35 percent of the profit generated by the electrical board goes waste due to power theft. Previous attempt to monitor the activities has not yielded positive results due to the corrupt practices of some of these personnel. This project aims at eliminating all these difficulties by designing a simple device to alert whenever there is a Power theft activity at a certain cluster of an area.
Components Used	Power supply(230V, AC Main), Transformer, Bridge rectifier, Capacitor, Voltage Regulator(IC 7805), Resistor, LCD Display Interface, LED(Light Emitting Diode), Buzzer/Siren, Arduino NANO, Current Sensor



Trainings

Training Name	Arduino and Robotics
Institute Name	Project-curiosity, Bhilai (C.G.)
Period	7 th June, 2017 – 7 th July, 2017
Description	I learned about basics of Arduino and Robotics and implemented them in several applications using Software and Hardware like Proteus, Keil, Arduino, Daughterboard, all three modes of Timer555 Timer, LCD,IR Sensor, PCB, Temperature Sensor, LDR, Automatic ,Capacitor, Resistor, Motor, Bluetooth, Analog Resistive Touchscreen etc.
Components Used	Arduino, PCB Designing, Proteus, Keil

Training Name	Training in Advanced Telecommunications
Institute Name	CTTC, BSNL, Kolkata
Period	19 th June, 2018 – 13 th July, 2018
Description	I learned about Overview of Telecom Network, Passive Optical Network, Switching and Signalling, SDM, NIB, ISDN, IPV4, Overview of GPRS, 3g, IN, GSM Architecture, EVDO, DWDM, OFC, CDOT, CDMA, Broadband, Internet TCP IP, NGN.



Other Projects

- Simple wired robot for Inter-college tech fest competitions like Robo Race, Robo Wrestling, and Robo Soccer.
- IR Sensor based Line follower Robot: Programmed using Arduino to move only on black line.



Academic Achievements

- Got International Rank 75 and School Rank 1 in International English Olympiad.
- School Rank 3 in International Mathematics Olympiad, both organized by Science Olympiad Foundation, India.
- Received second prize in Intra-school physics seminar competition, held in school.
- Responsible for promotion of Inter-college tech-fest organized by my college in other colleges.
- Prepared a robot for inter college tech fest Avesh 2k17
- I was one of the core members of Avesh, the tech club and Founding member of Language and Soft-skill Development club of college.
- I was one of the coordinators of the event Robo Drift in Avesh 2k18.
- Reached final round of events Junkyard, Pariksh (Quiz), and semifinal of Who Dunn It in Avesh 2k18.
- Top performer in Training in Advanced Telecommunications at CTTC, BSNL, Kolkata.



Outreach Activities

- Our team Samvesh in college conducted activities every Saturday for 3 months in a government school to help students build confidence, sense of responsibility, independence, improvement in communication skills etc.
- Our efforts were recognized and highly appreciated by the students, teachers and even by local media like City Bhaskar.