Ram Mahesh

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Objective

To pursue career in Electronics where I could use my skills for the development of advanced technology for the benefit of mankind.

Education

Degree	College/School	University	Passing Year	Percentage
B.Tech (Electronics& Communication Eng.)	IET Lucknow	APJAKTU,Uttar Pradesh	2020	8.0 (Till 5 Semester.)
SSC	New Green Field Public Academy ,Indore(M.P.)	CBSE	2015	86.60
HSC	Lucknow Public School ,Rae Bareli	CBSE	2013	10.0

Major Projects

1. **Intelligent Gardening System under Prof Hari Prabhat Gupta IIT BHU**
   Using ML model to predict when to water plant based upon the values collected from surrounding of plant using sensors depending upon the past data collected.For better data interpretation and User interaction we designed user interface using HTML and CSS.
   Project Outcome :- Best Project Award.
   Skills Learnt :- Python Raspberry Pi-3,Image Processing,Arduino,Sensors,MQTT,Pandas,Numpy,Machine Learning

2. **E-Yantra Robotics Competition 2017 (IIT Bombay) - Transporter Bot**
   Using the Firebird-V (Robotic Research Platform),ZigBee communication & Blender animation, we designed a bot capable of transporting the crates to Truck from field.
   Project Outcome :- Second Rank in National Finals.
   Software/Hardware Learnt :- Zigbee,Atmel Studio,Arduino,Mechnaical Arm Design,Embedded System.

3. **Temperature Controlled Switch Using OP-AMP Based on P & PI Controller**(Ongoing*)
   We had used the OP- AMP to make a temperature controlled switch using the Proportional and Proportional Integral controller.
   Software/Hardware Learnt :- P-Spice,Eagle,Circuit Analysis.

4. **E-Yantra Robotics Competition 2018 (IIT Bombay) - Mocking Bot**
   Using Audio processing and Machine learning we are wrote algorithm to Notes,Onsets,Instruments of

audio file and then regenerate it using a striking mechanism
Project Outcome :- Fifth Rank in National Finals.
Software/Hardware Learnt :- Python,Machine Learning,Embedded Systems,Robotic Design.

Minor Projects

1. **Home Automation System** :
   (a) Using a DTMF, ARDUINO and Relay I designed a system which allows user to control the Home appliances by making a Call on the Mobile Phone attached to system

2. **Power Supply Box:**
   Using the diodes and transformer made a power supply box that converted 220V AC to regulated 9V DC power supply.

3. **Pills Detection By Image Processing:**
   Using OpenCV we took an image of Leaf of Medicine and then detected how many are tablets are remaining.

Training& Internship

1. **Summer Training cum Internship 2017**
   Machine Learning and It's application in IOT Under Guidance of Prof. Hari Prabhat Gupta (IIT BHU)

Technical Skills

1. **Embedded System:-** AVR Microcontrollers,Arduino,MSP430,Colour Sensor,Bluetooth Module,SD CARD Module,LM35,Raspberry PI,Zigbee Communication.

2. **Programming Language**: - C,Python(OpenCV,Pandas,SKLearn,Matplotlib etc.),Embedded C.

3. **Web Development:-** Front-End-Development(HTML-5, CSS-3)

4. **Software Proficiency:-** MATLAB,P-Spice,OrCad,Rasbpian(Linux),ATMEL Studio.

5. **Hardware Design:-** Robotic Arm Design,Striking Mechanism To play musical Instruments.

6. **Electronics Skills:-** Circuit Design,PCB Design etc.

Soft Skills

1. Goal Oriented Person

2. Passionate for Electronics

3. Problem-solving abilities

4. Responsible

Extra-Curricular Activities

1. Attended a 7 Day Faculty Developement Programme on Human Values & Professional Ethics organised By AKTU, Uttar Pradesh
2. Attended a 7 Day session on Inner Engineering by ISHA Foundation.
3. Assistant Coordinator in Abhigyaan (University Technical Fest)
4. Coordinator in Converge (College Alumni Fest)

Personal Details

Father's Name:-	Shiv Raj Yadav
Mother's Name:-	Lt. Chandra Vati
Gender:-	Male
Nationality:-	Indian
Marital Status:-	Single