

## EDUCATION

### **Bachelor of Technology (B.Tech), Electrical and Electronics Engineering**

HMR Institute of Technology and Management

2017 - 2021

### **Senior Secondary (XII), Science**

HEERA PUBLIC SCHOOL

(CBSE board)

Year of completion: 2017

CGPA: 7.20/10

### **Secondary (X)**

Heera Public School

(CBSE board)

Year of completion: 2014

CGPA: 7.20/10

## JOBS

### **Faculty Of Coding And Robotics**

Sanjay Ghodawat International School, Kolhapur

Dec 2021 - Present

Teaching Coding- C++ and Python and Managing Atul Robotics Laboratory of the SGIS

### **Robotics Enginner**

ABA AIOT PVT LTD, Chandigarh

Sep 2021 - Dec 2021

Working on Nivida Jetson,Raspberry pi, Motor Driver, EV Motors, Servomotors ,DC Motor.

ROS, MQTT , Gazebo , RViz, Circuit Designing, CAD.

## INTERNSHIPS

### **Robotics Intern**

ABA AIOT PVT LTD, Chandigarh

Mar 2021 - Aug 2021

Working on Nivida Jetson,Raspberry pi, Motor Driver, EV Motors, Servomotors ,DC Motor.

ROS, MQTT , Gazebo , RViz, Circuit Designing, CAD.

### **E-yantra Robotic Competition 2020-2021**

E-YANTRA, Virtual

Oct 2020 - Mar 2021

Theme - Vitarana Drone

### **BSES Internship**

Vivid Technologies, Virtual

Aug 2020 - Sep 2020

Preparation of documentary on Specification of Electrical Equipments

### **Machine Learning Internship**

SmartBridge Education Service, Virtual

May 2020 - Jun 2021

I had learned the concepts of Machine Learning and worked under the supervision of project mentor & developed the project entitled "Predicting Compressive Strength of Concrete using IBM Watson AutoAI Experiment".

## **TRAININGS**

### **ROS : Build Robotic Arm In Gazebo And Moveit**

udemy, Online

Jun 2021 - Jun 2021

Robotic Arm Model Building on gazebo and RViz.

### **Python Programming**

University Of Michigan, Online

Jan 2021 - Feb 2021

### **Machine Learning With Python**

SmartBridge, Online

May 2020 - Jun 2020

Introduction To Machine Learning using Python. Machine learning is a type of artificial intelligence (AI) that provides computers with the ability to learn without being explicitly programmed. ... A better option would be downloading miniconda or anaconda packages for python, which come prebundled with these packages.

### **PLC & Scada**

MAC OMRON, Delhi

Jun 2019 - Jul 2019

### **IoT & Robotics**

Kvch, Delhi

Oct 2018 - Oct 2018

It's a basic training on IoT with robotics in which I learn basic programming with arduino and microcontroller (ESP8266) WIFI MODULE V2 & V3 , I also learn calibration and programming with various sensors LDR, DHT11, PIR, HC-06, relay, ultrasonic sensor etc

### **Matlab**

Seldom India, Delhi

Feb 2018 - Feb 2018

## **PROJECTS**

### **Oil Mining Plant And Oil Transport (SCADA Wonderware InTouch)**

May 2020 - May 2020

[https://www.instagram.com/p/CAVhWbppLcm/?utm\\_source=ig\\_web\\_copy\\_link](https://www.instagram.com/p/CAVhWbppLcm/?utm_source=ig_web_copy_link)

"SCADA's ability to collect data at remote oil and gas sites reduces personnel visits and ... Oil and gas exploration and production companies must increase

### **Smart Glasses**

Feb 2020 - Feb 2020

<https://github.com/Tiwaricoding/Smart-Glasses>

Smart Glass  
HARDWARE REQUIREMENTS  
Arduino Nano  
Glass Prism  
Temperature Sensor  
Oled Display  
Battery  
Bluetooth Module  
Smart Phone

### **Railway Accident Avoiding System Using IoT**

Dec 2019 - Dec 2019

<https://github.com/Tiwaricoding/Railway-Accident-Avoiding-System>

Railway Accident Avoiding System Using Arduino UNO and GSM MODULE  
Requirements  
Arduino UNO  
IR SENSOR  
SERVO MOTOR  
BREADBOARD  
TOY TRAIN SET  
GSM MODULE 800L  
LEDS  
CARDBOARD.  
24V Battery.

### **Smartphone Bluetooth Control Smart Mirror**

Feb 2019 - Feb 2019

<https://github.com/Tiwaricoding/Arduino-Smart-Mirror>

Bluetooth module HC-06, 3 OLED Display ,DHT11 Temperture and Humidity,1 Nano arduino , RTC ,1 Oled Display for displaying Date and Time.1 Nano arduino, DHT11,1 Oled Display for displaying temperture and humidity and HC-06 for message displaying.

### **Arduino digital Clock**

Feb 2019 - Feb 2019

Arduino, Real Time Clock (RTC) module, Oled Display. wires.

### **Home Automation using Blynk app**

Jan 2019 - Jan 2019

[https://www.instagram.com/p/B-9Jb6QDylp/?utm\\_source=ig\\_web\\_copy\\_link](https://www.instagram.com/p/B-9Jb6QDylp/?utm_source=ig_web_copy_link)

ModeMCU 1.0 (ESP-12E module) , Smartphone Wifi Connectivity, Relay 5V or Relay card 5v, wires, 5v battery, any home appliance or bulb & bulb Holder

### **ULTRASONIC RADAR (object detecting and Positioning system)**

Dec 2018 - Dec 2018

<https://github.com/Tiwaricoding/Ultrasonic-Radar->

Arduino, Ultrasonic Range Finder Module sensor and Distance measuring Transducer HC-SR04 5V, Servo motor for rotation of 0 to 180 degree.  
Software use- Arduino, processing 4 graphic representation of object.

### **ModeMCU Car (smartphone wifi control car)**

Nov 2018 - Nov 2018

<https://github.com/Tiwaricoding/Wifi-Car-Nodemcu-Car->

ESP8826 V3 module for wifi connectivity with smartphone , Motor Driver L298, Dual Shaft BO Motor with 4 wheel, 4 wheeler car chassis , wires , 12 v li-po rechargeable battery for motor driver, 5v volt battery for modeMCU

### Smart Small Robot

May 2020 - Present

<https://github.com/Tiwaricoding/Arduino-Robot>

Smart Phone BLUETOOTH control Robot.

Equipment Required

Arduino UNO

8 Servomotors

Cardboard

Bluetooth Module HC-06

Wires.

## SKILLS

### C++ Programming

Intermediate

### PLC SCADA

Advanced

### Circuit Design

Intermediate

### Adobe Photoshop

Intermediate

### CSS

Advanced

### Node.js

Intermediate

### Python

Intermediate

### Internet of Things (IoT)

Intermediate

### Arduino

Advanced

### MS-Office

Advanced

### HTML

Advanced

### JavaScript

Intermediate

### Robotics

Advanced

## WORK SAMPLES

### Blog link

<https://codingbeastplaylist.github.io/>

### Other portfolio link

<https://www.linkedin.com/in/sourabh-tiwari-30b837177>

### GitHub profile

<https://github.com/Tiwaricoding>

## ADDITIONAL DETAILS

Admin of Page Power of Man Instagram Motivational Meme designing  
username @power\_of\_man\_\_