# RESUME

## Deepak Kumar Joshi

### PERSONAL DETAILS

**MOBILE:** +91 9752892829

**EMAIL:** 27deepak94@gmail.com
EE19RESCH11011@iith.ac.in

**ADDRESS:** 31, South Kamathi Pura, Indore, M.P.

**DOB:** 27/05/1994

### PROFESSIONAL EXPERIENCE

1. **Research Intern at IIT Hyderabad (July'18 to June'19)**

   - Working at Advanced Embedded Systems and IC Design lab for development of cracks and corrosion detection system in Oil and Gas Pipeline.
   - Working with piezo-ceramic sensor for defect detection and algorithm development for characterization of cracks.

2. **Trainee at Techwiz, Indore (June'15 to July15)**

   - Techwiz is best institute for industrial training in Embedded Systems and IOT in Indore.
   - Worked with different sensors and actuators for development of different projects.

### EDUCATIONAL QUALIFICATION

| Title of the Degree / Certification | Board / University | Year of passing | Percentage |
|---|---|---|---|
| M.Tech (Embedded system) | School of Electronics, Devi Ahilya University, Indore, M.P. | 2019 | 7.89(CGPA) |
| B.E.(Electronics and Communication) | Swami Vivekanand College of Engineering, Indore, M.P. | 2016 | 6.68(CGPA) |
| Class $12^{th}$ | M.P. Board | 2012 | 81.8% |
| Class $10^{th}$ | M.P. Board | 2010 | 79.8% |

### TECHNICAL SKILLS

- **Programming Languages:** Java, Perl, Python, C, VHDL, Assembly (8051,ARM).
- **IDE Tools and Utilities :** Keil µ-vision, Modelsim, Python(IDLE,Spyder), Padre(PERL IDE), Arduino IDE, MATLAB, Mbed Os.

- **Operating Systems** **:** Windows, Linux.

## PROJECTS

- **Corrosion and Crack Detection in Oil and Gas Pipelines:** Research based project on structural health monitoring of oil and gas pipeline based on idea affordable sensing and enriched learning. (currently in progress).

- **Assistive Robotic Arm:** This project is prototype of a robotic arm which is designed for adult care. Keywords: -Raspberry pi model 3B(Primary controller), Different Torque Servo motors Arduino UNO (Secondary Controller).
  https://drive.google.com/drive/folders/1fgeZCVGbif7Iflopw6v9d2lhkuUtD7g?usp=sharing

- **Monitoring:** Monitoring of temperature and humidity using DHT11,Raspberry pi,Nucleo Board.

- **Virtual Car:** This project modelled the different modes of a car like cruise, normal, parking and also takes sensor outputs and work accordingly. **Keywords**:- ARM Nucleo board(STM32F401RETxx), DHT11, Reed Switch, Ultrasonic sensor, Joystick, DIP switch, Buzzer, DC Motor.
  https://drive.google.com/drive/folders/1PRxznjuEB9jmBiDuGPMb9P8kGgLiv90w

- **Banner:**Welcome Banner for Teacher's Day Celebration using 8051 microcontroller and LEDs.
  https://www.youtube.com/watch?v=XEARn3diNr8

- **Home Automation:** Controlling of room lights and fans using node mcu and MQTT protocol.

- **Digital Watermarking and DE-Watermarking using MATLAB:** To hide secret codes, passwords in an image by using MATLAB and then send it to destination.

- **RF-ID Based E-cash System:** Payment through the RF-ID Tag card instead of carrying currency to the vendor of canteen, beneficial for management.

## ACHIEVEMENTS

- Qualified GATE 2017 examination with 91.8 percentile.
- Scored 97% in yoga vocational course conducted by National Institute of Open Schooling.

## DECLARATION

I, hereby declare that all the details furnished above are true to the best of my knowledge and belief.

**Date**: - 27/06/2019

**Place**: -Hyderabad Deepak Joshi