

**Satyam Kumar**

Electronics and Communication Engineer

# SUMMARY

**CONTACT**

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# SKILLS

* C/Embedded C
* C++
* Microcontroller Programming (8-bit, 32-bit).
* Embedded System Design.
* Firmware Creation, Embedded Testing and debugging.
* Experience in firmware development with Keil, STM32cubemx and IAR embedded workbench IDEs.
* PCB Designing.
* Communication Protocols (I2C, SPI, USART etc).
* PCB tracing and Schematic Design.
* MATLAB.
* Public Speaking.
* Team Work/Collaboration.
* Leadership/Management Skills

# LANGUAGES

* + English
  + Hindi

**Co-Curricular Activities**

* Vice Chair at Robotics and Automation Society Of IEEE MSIT with 4 core and 50 overall members, got to organize multiple webinars.
* Industry Relation Coordinator at IEEE WIE AG Delhi Section for the session 2020- 2021.
* Organized more than 10 hands on workshops and more than 30 seminars and webinars with IEEE MSIT.
* Lead a Tech team of 16 people and organized 5 workshops in collaboration with ECE department of MSIT and AWP-PCB lab.
* Chief Organiser of Robotics department Of Avensis 2020, Annual Technical Fest of MSIT.
* Volunteered at India Skills 2018 by NSDC, collaborated in a team of 10 members and registered somewhat 4000 people for counseling by NSDC.

Being impassioned and excited individual I believe that there is always a better way of doing something and some scope of improvement, 15 months of internship experience in Embedded systems makes me eligible to work over challenging industrial projects in the fields of Embedded system development, firmware development and electronics hardware designing, would always try to learn something new which increase personal knowledge and profits organization.

# EXPERIENCE

**September 2020 to June 2021**

[**Embedded Design Services India Pvt. Ltd. Sagarpur**](http://eds-india.in/)**, Delhi**

**Embedded Software Developer Intern**

* + EDS is among top 10 design houses in India.
  + Here I Coordinated with hardware and system engineering leads to gather and develop system requirements using 32bit and 8-bit microcontrollers.
  + Got to work over communication protocols like I2C, SPI, RS232, RS485 etc.
  + Got opportunity to Involve In projects including Analog and digital thermometer, Pulse Oximeter, BMS, VTS, Reverse Parking Assistance etc in my 9 months of internship period.

**January 2020 to August 2020**

[**Mushin Innovation Labs Delhi**](https://www.mushinlabs.com/)**, Delhi**

**Firmware Developer Intern**

* + Engaged on Projects related to Industry 4.0, which is designed for warehouse automation and named as Mushin Ecosystem.
  + Also worked on touch panel display using stm8s microcontroller for UV ray sanitization chamber.
  + Achievement – 2nd project Later introduced in [Philips UV sterilizer chamber](https://www.youtube.com/watch?v=P_nviba5LQE).

# EMBEDDED SYSTEM TRAINING

**June 2019 to August 2019**

# [EMTECH FOUNDATION](http://www.emtech.in/), Delhi

* Learned programming 8-bit PIC based microcontroller PIC16F887 using register level programming, and used peripherals like Timers, Interrupt, ADC, USART etc..
* Designed and fabricated 2 PCBs at the end using Proteus by Etching for project during this training.
* PROJECT -Bluetooth controlled spy Bot using Bluetooth modules in Master Slave mode in last month of 3 months training.

# EDUCATION

## Bachelor of Technology (B.Tech) Electronics and Communication, 2021

### Maharaja Surajmal Institute Of Technology, Delhi

82.5%

**HSC (XII), 2017**

Rajkiya Pratibha Vikas Vidyalaya, Surajmal Vihar, Delhi-110092

75.40%

**SSC (X), 2015**

Govt. Boys Sr. Sec School Dilshad Garden, Delhi-110095

77.9%

PROJECTS

### Offline Signature Detection Using MATLAB with 90% accuracy (Final Sem Project)

* LIDAR based 3d scanner using with 15% accuracy (Penultimate Sem Project)

### MLX91614 based digital thermometer

* STM32 based Pulse Oximeter using Max30102 module.
* Analog Thermometer using Amphenol ZTP sensor
* Bluetooth Controlled Bot using PIC16f microcontroller and HC05 module.