**Yash Pratap Singh Tomar**

**B.Tech, Final Year**

**Electronics and Communication Engineering**

**Indian Institute of Information Technology Design & Manufacturing**

**Jabalpur, M.P, India**

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**Objective**

Looking for work opportunities to deepen my knowledge in my interest areas, enhance and apply my technical skills to assist the organisation.

**Education**

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| Institute | Qualification | Year | Performance |
| O.P.G.M. Senior Secondary School, Chandausi, Uttar Pradesh | 10th (CBSE) | 2012 | 10.0 (C.G.P.A.) |
| Gautam Buddha Balak Inter College, Greater Noida, Uttar Pradesh | 12th (CBSE) | 2014 | 91.8% |
| IIITDM, Jabalpur, Madhya Pradesh | B.Tech, 3rd Year | 2015-19 | CPI – 8.1 |

**Internship & Training**

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|  **Summer Internship, IIT-Bombay** | May-July 2017 |

**FOSSEE, Indian Institute of Technology, Bombay**

Internship at FOSSEE project, IIT Bombay. FOSSEE (Free and Open Source Software in Education) project promotes the use of FOSS tools to improve the quality of education in our country, the project is sponsored by MHRD. My project topic was – “Scilab2C for Arduino” under the guidance of Prof. Kannan M Moudgalya. Scilab2C is a toolbox which is added to Scilab to convert a Scilab code to C and make it compatible with Arduino, Raspberry pi and AVR and platforms. My main focus was to improve the functionality of toolbox for Arduino platform, by adding support for basic Arduino Functions, additional libraries like I2C and extending its support for all Arduino boards. I also modified the toolbox GUI.

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**Projects**

* **New MPPT algorithm for PV array (PBI Project):** This project aims at developing a new algorithm for tracking maximum power point of Photo-Voltaic array. We have planned to complete this project by the end of November with software simulation and hardware testing**.**
* **Auto injector and fitness tracker for anaphylactic patients**It was our design and fabrication project. A team of 5 members worked on the project. We have fabricated an autoinjector which can be used by a person himself if he/she is under an anaphylactic attack, it also includes a fitness tracker which will notify the patient about the attack if he/she comes into contact of allergen. The complete package also includes a mobile app which takes heart rate data from tracker, after analysis it notifies user about the upcoming attack.

**Skills**

1. C Python 3. LabVIEW

4. MATLAB/Scilab Proteus (Circuit simulation) Arduino

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**Key Courses**

1. VLSI IC design 2. Principles of Communication

3. Analog Electronics 4. Digital Electronics and Microprocessors

5. Electronics Devices and Circuits 6. Signals and Systems

7. Linear Integrated Circuits 8. Instrumentation and Measurements

9. Fundamentals Of computing 10. Data structures in C

**Additional Courses**

* ‘FPGA computing systems: Background knowledge and introductory materials’ by Politecnico di Milano. (Coursera)
* ‘Python Data Structures’ by University of Michigan. (Coursera)
* ‘Interfacing with Arduino’ by University of California, Irvine. (Coursera)
* ‘The Raspberry Pi Platform and Python Programming for the Raspberry Pi’ by University of California, Irvine. (Coursera)
* ‘Interfacing with Raspberry Pi’ by University of California, Irvine. (Coursera)

**Interests**

1. Internet of Things

2. Embedded Systems

**Achievements**

* Holding the post of Training and Placement Representative.
* Volunteer in NSS IIITDMJ for 2 years.
* Active member of Institute’s Electronic club.
* Event coordinator of ‘Technovation’ event in Abhikalpan 2018.
* Event Coordinator of ‘LED-Matrix Gaming’ in Inter-IIIT Techno Cultural Fest 2017.
* Intra College LED-Matrix Gaming event-2016 Runner Up.
* Intra College Circuit Simulation event-2016 Runner Up.

**Personal Details**

Date of Birth- 11th Dec. 1996

Language Proficiency- English, Hindi.

Personal Interests- Current Affairs, Travelling, Knowing about Latest technology trends.