

SIDDHANT BHAMBRI

Aiming to bring a revolution in robotics for the benefit of mankind



1 Career Objective

To secure the rewarding internship at e-Yantra, where I can be mentored by the experts in the field of the embeded system at IIT-Bombay which will be salutary for me to secure a career as a researcher in this field.

2 Personal Details

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3 Educational Qualifications

| Course/Examination | Institute/University | Year of passing | Performance |
|---|---|-----------------|----------------------------------|
| B.Tech, Electronics and Communication Engineering | Bharati Vidyapeeth's College Of Engineering | 2019 | 71.00 (C) (up to third semester) |
| CBSC (SCIENCE-PCM) XIIth | (CBSE) Model School Rohtak, Haryana | 2015 | 77.00 percent(agg) |
| CBSE Xth | (CBSE) Model School Rohtak, Haryana | 2013 | 8.8 CGPA |

4 Projects

4.1 Completed

1. Model a Terrain using Serial communication between Firebird V and Blender Game Engin using (XBees 2.4C).
2. Smart features like auto landing and take-off, geofencing and altitude hold in a quadcopter.
Link for Project - <https://www.youtube.com/watch?v=N8zVc11KKoU>
3. Quadcopter system for aerial surveillance using KK2.1.5 board.
Link for Project - <https://www.youtube.com/watch?v=N8zVc11KKoU>
4. Bluetooth Controlled Quadcopter Rover Mechanisum using Arduino.
5. IOT based Plug AND Play Home Automation System Without Rewiring.
6. Wearable sensor module for gesture recognition and gait tracking.
7. Home Automation using wearable device based on gesture recognition.
8. Making and controlling 8*8*8 multiplexed LED cube matrix with self-built PCB.
9. Tic-tac-toe Game with GUI(Graphic User Interface) in JAVA.
10. RFID, IR sensor,GSM and GPS based anti-car theft system.
11. Propeller Clock (ATMEGA-8).
12. IoT based Door lock system (TI- CC3200).

4.2 Currently Working On

1. Semi-Automated Car and self driving car system using (Raspberry Pi and DIP).
2. IOT based Plug and Play Home Automation System Without Rewiring.
3. LifeLine (A medical alert app).
4. Visible Light Communication(VLC)- Advanced version of LiFi

5 Training and Internships

1. **Industrial Training on Embedded Systems** (Cyborg Labs) [June-August 2016]
2. Workshop series by Technex'17, IIT Varanasi on Internet of Things[September 2016]
3. 14 hr. workshop series by Texas Instruments Ltd. On Embedded Systems and Internet of Things[October 2016]
4. **Workshops on Arduino based controlling**/Robotic workshops(8) by RAS, BVPIEEE [October 2016-Present]
5. **Complete JAVA masterclass** (Udemy) [Present 2017]
6. **Machine Learning by Andrew Ng**
Created by Stanford university (Coursera) [Present 2017]
7. **Workshops on Angular Js** by Brain Mentors Pvt.Ltd.
8. **Workshops on FPGA** (Field-Programmable gate array) [January 2017-]

6 Research, Publications and Patent's

1. **Provisional Patent on non-rewiring based home automation system (Status-Awaiting Evaluation) /item Patent on**

7 Technical Skills

7.1 Programming Languages

- C++
- JAVA
- Python Basics
- Embedded C

7.2 Operating Systems

- macOS Sierra, version 10.12.3
- Windows XP/7/8/10
- Android

7.3 Software and Platforms worked upon

- Arduino IDE
- Proteus
- JDK(Java Development Kit)
- Intelli IDEA CE
- PyCharm CE
- Microsoft Office
- Energia
- TeraTerm
- XCTU
- KK multicopter flash tool
- Fritzing
- LaTeX

7.4 Others

- Orcad Capture
- AVR Studio
- Blender Game Engine

7.5 Development Boards/Modules

- ATMEGA16
- Arduino Mega(ATMega 2560) and Uno(ATMega328)
- MSP430(LaunchPad)
- CC3200(built in accelerometer)
- HC05
- MPU 6050
- Xbee

8 Soft skills

1. Fluent in Hindi and English, Hindi being the native language.
2. Research and Development Head Robotics and Automation Society, teaching experience to 50+ fellow students.

9 Extra Curricular Activities

- Senior Diploma in vocal music.
- State Level Finalist in Singing Sanoni Foundation.
- Head (Research And Development) BVPIEEE.
- Student Member (Computer Society of India).
- Student Member IEEE(Institute of Electrical and Electronics Engineers).

10 Co-Curricular Activities

1. **Positioned First in Model a Terrain Theme: e-Yantra 2016**
(national level robotics competition by IIT-Bombay)
2. **Research and Development Head** at BVPIEEE RAS (July 2016-Present)
3. **Event Coordinator** at Robo Soccer event by BVPIEEE RAS, BVEST 2016
(October 2016)
4. **Event Manager** at robotic event (Guardians of Galaxy) at Fervour'16 (April 2016)
5. **Second position** holder at RoboThon Bvest,(BVCOE, October 2015)
6. **Second position** holder at RoboMaze Bvest,(BVCOE, October 2015)
7. **Technical Head** at robotic event (Maze solver) in Fervour'16 (April 2016)

11 Personal Details

Father's Name- Mr. Viney Bhambri
Mother's Name- Mrs. Ashita Bhambri
Sex- Male
Date of Birth- 13/04/1997
Nationality- Indian
Marital Status- Unmarried

12 References

- Mr. Abhishek Gagneja, Assistant Professor, Bharati Vidyapeeth's College of Engineering
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- Mr. Ashish Kumar, Assistant Professor, Bharati Vidyapeeth's College of Engineering
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- Mr. Shivam Bhardwaj, Ex-Vice Chairperson (BVPIEEE),
Ex-Chairperson (BVPIEEE-RAS) and CTO (REES 52) Contact No.: +91 8130844448
- Mr. Dhruv Gaba, Ex-Vice Chairperson (BVPIEEE-RAS) and CRO (REES 52)
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13 Date

24/04/2017