# Bhawana Chhaglani

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**INTERESTS**

Robotics, Mobile computing, Image Processing, Internet of things and communication.

**EDUCATION**

**Bharati Vidyapeeth's College of Engineering**     2016-2020
Bachelor of Technology in Electronics and Communication
Current CGPA Score - 9.0/10.0

**Tulip Public School, Etah**     Jul.2016
12th C.B.S.E.
District Topper with 95%

**Tulip Public School, Etah**     Jul. 2014
10th C.B.S.E. 10 CGPA

**TRAINING & INTERNSHIPS**

**Full Stack Developer at Aerogram**     Dec. 2018-Present
Handling the server side of the IoT network.
Led by : Sarita Ahlawat

**Research Intern at IIT Delhi**     Jun. 2018-Aug. 2018
Implementing MAC Layer for Visible Light Communication
Led by : Dr. Brejesh Lall(IIT Delhi), Shivam Shekhar(Velmenni) and Monica Bhutani(Bharati Vidyapeeth's College of Engineering)

**Udemy Online Course**     Dec. 2017-Jan. 2018
Machine Learning and Deep Learning using Python

**Trainee at Cyborg Labs, Delhi**     Jun. 2017-Jul. 2017
Embedded Systems and its Applications

**TECHNICAL SKILLS**

*Programming Languages:* Python, C/C++, Embedded C, MATLAB, LaTex, HTML/CSS, Javascript, PHP, SQL.
*Hardware Descriptive Language:* VHDL.
*Embedded Platforms:* Raspberry Pi, Arduino, NodeMCU.
*Softwares and Libraries:* OpenCV, TensorFlow, Keras, Firebase, ATMEL AVR, Proteus, OrCAD Capture/PSpice, Firebase.

**HONORS & AWARDS**

**Winner of Hack-A-BIT**     Oct. 2018
First position in East-India's Largest Hackathon.

**Hackathon 5.0 Digifest Bikaner**     Jun. 2018
Selected in top 5 teams out of 800 teams from over 20 cities.

*2nd Runner-up in* **Smart India Hackathon 2018**     Dec. 2017-Jun. 2018
It was a national-level competition organized by **All India Council for Technical**

Education (AICTE), Inter Institutional Inclusive Innovation Center (i4c), and Persistent Systems.

*First Prize at* **EV Hackathon** Apr. 2018
It was **India-Australia Joint Initiative in collaboration with Charge Point, Mahindra and BSES.**

*Participation in* **eYantra 2017** Jan. 2018
eYantra is a national-level Robotics Competition. The team came in top 10 out of 150 teams in theme planter bot

**IEEE Xtreme 11.0** Oct. 2017
Xtreme is an International level Coding Competition. The team had an **AIR 19**

**Third Rank in RoboCup, DTU** Feb. 2017

**First Rank in Robosoccer, BVEST at BVCOE** Oct. 2016

**Student of the Year Award** Jul. 2016
For standing first at district-level in CBSE Board Examinations

**PROJECTS**
**- DroneVLC** Nov. 2018-Present
*Drone to Drone Communication using visible light communication.*

**- THE HAND** Oct. 2018
*An Assistant for Deaf and Mute. It consists of potentiometers placed at every joint of hand that converts sign language into speech and provides alerts in case of emergency.*

**- WieAssist** Oct. 2018
*An application that incorporates safety in daily life of women. It rates places on the basis of safety using crowd-sourcing and web crawling, provides timely alerts and shows safe routes. It was built using Python, Firebase and Java.*

**- Touristant** Jun. 2018-Jul. 2018
*A positioning-system that guides and assists tourists at tourist destinations using Received Signal Strength Indicator triangulation mechanism.*

**- MAC Layer for VLC(IIT Delhi)** Jun. 2018-Aug. 2018
*MATLAB Simultion of MAC layer for Visible Light Communication based on standard IEEE802.15.7*

**- Baggage Tracking at Airports** Dec. 2017-Jun. 2018
*A system that tracks the baggages at airport using RFID and IoT technology. It aims at strengthening the existing barcode dependent system.*

**- Planter Bot(eYRC 2017)** Nov. 2017-Feb. 2018
*A bot that traverses an area using raspberry pi and picam and responses to various colors and shapes in that area. It follows the line using Image Processing and PID.*

**- Smart Farming Assistant** Aug. 2017-Mar. 2018
*A sytem that makes farming crop-oriented. It sows seeds, analyses the field sectionally and accordingly provides water and fertilizers.*

**- Visible Light Communication** Aug. 2017-Sep. 2017

*Transfer text, music and images from one device to another using LED and Solar Panel.*

**- Racing drone**                                           Dec. 2016
*A drone made using arduino ATMEGA 2560.*

**- Advanced Line Follower Bot**                             Oct. 2016
*A line follower and color-responsive robot made using LDR and color sensor.*

**LEADERSHIP EXPERIENCE**

**Head Publications and Documentations**        Aug. 2017-Aug. 2018
Computer Science Society, BVP-IEEE Student Branch, Delhi.

**Web Administrative Executive**                Aug. 2017-Aug. 2018
Robotics and Automation Society, BVP-IEEE Student Branch, Delhi.

**Event Manager at Fervour**                              Mar. 2018
Organised by BVP-IEEE Student Branch, Delhi.

**Student Volunteer**                           Aug. 2016-Aug. 2017
BVP-IEEE Student Branch, Delhi.

**Head Girl**                                   Jul. 2015-Jul. 2016
Tulip Public School, Etah

**PUBLICATIONS AND PATENTS**

1. **B. Chhaglani** ”Baggage Handling and Tracking at Airports” 2018. Patented *at* Intellectual Property India.

**REFERENCES**

**Abhishek Gagneja**                          *Assistant Professor, BVCOE*
*Contact No.- +91 9971122557*
**Monica Bhutani**                            *Assistant Professor, BVCOE*
*Contact No.- +91 9868344002*
**Sarita Ahlawat**                         *BIRAC BIG Innovator, IIT-Delhi*
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