

# Kshitij Tomar

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## Education

Academic Year	Qualification	Institution	Board/University	Percentage
2014-2018	B.Tech in Electronics and Communication Engineering	Maharaja Surajmal Institute of Technology	GGSIU, Delhi	77% (till 2 <sup>nd</sup> Sem)
2013-2014	All India Senior School Certificate Examination (Class 12 <sup>th</sup> )	Greenway Modern Sr. Sec. School	CBSE, Delhi	84.4%
2011-2012	All India Secondary School Examination (Class 10 <sup>th</sup> )	Arwachin Bharti Bhawan Sr. Sec. School	CBSE, Delhi	CGPA 9.2

## Technical Skills

Softwares: MATLAB, Arduino IDE, Android Studio, Proteus Professional, ARES, AVR Studio, Eagle, Adobe Photoshop, Sony Vegas Pro, Audacity.

Languages: C, C++, Java(Basic), HTML, SQL, AVR, Arduino.

Platforms: Arduino and AVR Microcontroller Series (Beginner).

## Industrial Training and Internship

1. **Introduction to PCB Designing, Winter Training from ArCoBotics, Nirman Vihar, Delhi (Dec 2016 - Jan 2017)**
2. **MATLAB Summer Training from Aedifico, Laxmi Nagar, Delhi (June-9 to July 2016)**
3. **Maker Intern at JMoon Makerspace (Dec 2015 - Jun 2016)**  
Role being to prepare different projects and test different components and sensors available with Arduino.
4. **Summer Training in Core JAVA from Click@Career (June-August 2015)**

## Awards and Honors

1. Secured 1st position in 2016 MTT-S YouTube/YouKu Video International Competition.
2. Paper "Explosion Intensity Measurement using Piezo Element" published in IRJET Journal Volume 4 Issue 1 January 2017.
3. Secured 1st position in Inter College Project Presentation Competition held on 14th Jan, 2017 at MSIT.
4. Lead designer in IEEE CSIS 2017.
5. Designer in IEEE Delhi Section.
6. Secured 2<sup>nd</sup> position at Anugoonj 2016 (GGSIU Fest) for Group Song.
7. Secured 2<sup>nd</sup> position at IEEE PES MSIT's October Projects Week.
8. Cleared ASOL examination for Restricted licensing of operating HAM radio.
9. Qualified for State Level in IKEN-Scientifica, The National Science and Technology Competition in contribution with National Geographics in 2011.

## Teaching, Mentoring and Presentation Experience

1. Mentored students of classes 6-10 in Intel Makathon, Bawana on 9<sup>th</sup> Jan-15<sup>th</sup> Feb, 2016.
2. Mentored over 250 Govt. School girls of classes 8-12 in Intel Makathon, Lucknow on 14<sup>th</sup>-16<sup>th</sup> Sept, 2016.
3. Mentored students in Intel Makathon, Delhi on 29<sup>th</sup>-30<sup>th</sup> March, 2016.
4. Mentored students for MATLAB and Photoshop in SIG under IEEE MSIT in 2016-17.
5. Founder and Mentor of SIG in C/C++ under IEEE MSIT in 2015-16.
6. Was Event Head in Avensis 2016 (Tech Fest) in Robo Rugby (Robotics).
7. Trainer for workshop on Manual Robots during Avensis 2016.
8. Trainer for workshop on Autonomous Robots during Avensis 2016.

## Projects Undertaken

1. Smart Meter(IOT), Android App based Arduino project using ESP8266.
2. AnyTouch, IR based grid, detecting finger touches using Arduino, implementing with MATLAB and FL Studio, with a goal of making any screen, a touch screen.
3. Real Time Object Detection and Tracking using MATLAB (minor project).
4. Rooter Alarm using Arduino Uno.
5. Home Automation using Intel Galileo Gen2.
6. Domestic energy conservation using Intel Galileo Gen2.
7. Green Corridor using Intel Galileo Gen2.
8. Robotic Arm using Arduino Uno.
9. Sonar Based on Mapping System using MATLAB and Arduino Uno.
10. Air-Shot, a no board dart game using Arduino Uno.
11. Underwater PVC Marine- Submarine using Arduino Uno.
12. NASA Radio Jove under IEEE MTTS.
13. Digital Resistance Box Using Arduino Uno.
14. Laser based security system using Arduino Uno.
15. Orack- Manual Remote Controlled Robot.
16. Knock Door Lock System using Arduino Uno.
17. Home automation using Arduino Uno.
18. Laser based security system using Arduino Uno.
19. Air Touch, touch interface for old PCs, using Arduino Uno.
20. Line Following Robot.
21. Obstacle Detector Robot.

## Android Based Experience

1. Founder and member of DebuggerX Inc.
2. Made the following apps:
  - Unified News (on Playstore)(100+ downloads)
  - Smart Meter (IOT) for the Technical Project Exhibition held at MSIT on 25 Feb 2017.
3. Participated in
  - Technical Project Exhibition held at MSIT on 25 Feb, 2017.
  - APP-ATHON event at India Smart Grid Week competition 2017 held at NSIT, Delhi.

## Designer Experience

Has designed Posters/Certificates for the following events:

1. Lead designer in IEEE CSIS 2017.
  2. Lead Designer in Technical Project Exhibition, MSIT, 25 Feb, 2017.
  3. Lead Designer for ICON, the annual magazine of IEEE MSIT.
  4. IBM Cloud Computing Workshop, MSIT, 5 Oct, 2016.
  5. How to in plan a Startup, a talk event DTU, 11 Sep, 2016
  6. Hardware Development using TI-Platform, IEEE Delhi Section in collaboration with Texas Instruments, 3rd-4th Sept, 2016.
  7. YP-Student Mentorship Outreach Program, IEEE Delhi Section, August 2016.
  8. BootCamp by Coding Ninjas, MSIT, 13 Aug, 2016.
  9. Call For SIG Proposal, IEEE MSIT, 30 July, 2016.
  10. Sponsorship brochure for the Prakriti, 2016 (July) (the eco club of MSIT).
  11. Poster for event RoboWars, in Avensis 2016 (Feb) (Technical Fest of MSIT).
- and much more, and has designed many certificates for such events.

## Other Experiences

1. Head of Technical Department IEEE MSIT in 2016-17.
2. Participated in Clash Hacks, India's largest student-run independent hackathon, held at 91springboard, Okhla, Delhi on March 25th, 2017.
3. Organised Technical Project Exhibition 2017 held at MSIT, Delhi.
4. Participated in APP-ATHON event at India Smart Grid Week competition 2017 held at NSIT, Delhi.
5. Volunteered in APMC SIGHT Program 2016 sponsored by IEEE MTTS on 5th Dec 2016 at Hotel Pullman, Aerocity, New Delhi.
6. Volunteered in event "Shine Rural India with Renewable Technology" organised by IEEE Delhi Section SIGHT at IIT Delhi on 13th December 2016.
7. Represented IEEE MSIT at Delhi Student Congress (DSC) 11<sup>th</sup>-12<sup>th</sup> Sept, 2016, Delhi Technological University, Delhi.
8. Participated in Plethora - IEEE DTU's Hardware Hackathon.
9. Participated in Inno-thon - India's Smart Grid Week Competition.
10. Volunteered in Orientation Ceremony 2015 of IEEE MSIT.
11. Technical Coordinator for IEEE MSIT in 2015-16.
12. Technical Coordinator for Prakriti, the eco club of MSIT.
13. Coordinated in Arduino Workshop conducted by JMoon Technologies Pvt. Ltd. at MSIT, 2015.
14. Volunteered for Blood Donation Camp, 2015.
15. Presented "Knock Door Lock System" at Local Hack Day of Major League Hacking organized at USICT, Delhi.
16. Attended Android App Development Workshop IEEE Delhi Section on 7th-8th at NIEC, 2015.
17. Participated in IEEEExtreme 9.0, 2015.
18. Represented IEEE MSIT at DSYWC (Delhi Student Congress) 2015, Jamia Millia Islamia, Delhi.
19. Volunteer for Technical Project Exhibition 2014.
20. Attended a workshop on Arduino organized by JMoon Technologies Pvt. Ltd., Delhi
21. Attended a workshop on Arduino organised by IEEE MTT-S, 2014
22. Represented MSIT in Anugoonj 2015 for Zonal level (Prelims) for singing.
23. Member of Mutants, Cultural Society of Maharaja Surajmal.

I hereby declare that all the information enclosed by me are genuine and are best to my knowledge.

Date : 28/2/2017

**Kshitij Tomar**