# RAHUL R. KASHYAP

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## *EDUCATION*

| Year | Degree | Institute | CGPA/Percentage |
|---|---|---|---|
| 2015-18 | B.Tech Computer Engineering | K.J. Somaiya College of Engineering | 7.53 / 10 (till SEM 7) |
| 2015 | Diploma in Information Technology | Government Polytechnic Mumbai | 90.78% |
| 2012 | Secondary School Certificate | St. Anthony's High School | 87.45% |

## *AWARDS & ACHIEVEMENTS*

- *Winner Smart India Hackathon 2017 in DST organized by Govt of India.*
- *1st Runners Up at National Instruments India Design Challenge (NIYANTRA) 2016.*
- *2nd Runners Up at Hack for Change Hackathon 2017 by Intertrust Technologies.*
- *Runners Up at VJTI Technovanza 2016 Makers Square & Winners at SPCE Spectra Competition 2016.*
- *Won the 1st prize at MSBTE State Level Quiz (2015) , Compotsav (2013) and 3rd Prize at Vivekanand College(2015).*
- *Won the 1st prize at IEI (2014) and 2nd prize at OPUS project exhibition (2015).*
- *4th Place in Maharashtra at IET India Scholarship (2016).*

## *WORK EXPERIENCE*

**In-house Research Intern** **Dr. Kashinath Patil, Dean R&D, KJSCE** **May'16 - Present**

- Contributed to various projects like Solar Vaccination box, Pinch Analysis, and solar data logger, etc in the R&D Department.
- Designed, manufactured and deployed prototypes for pilot testing in Central Railways.

**City Head & Campus Ambassador** **Gyandhan** **Sept'16 – July'17**

- Promoted the organization's activities on various social media platforms & organized informative seminars for Gyandhan.
- One of the top 5 performers out of 50+ campus ambassadors in the program.

**AR VR Intern** **Parallax Labs LLP, Mumbai** **June'16 – July'17**

- Designed an application of a 360-virtual tour of Somaiya Vidyavihar Campus.
- Developed an AR & VR application for real estate sector i.e. creating virtual tour from a floor plan and its models.

**Team Lead & Technical Member** **Team KJSCE Robocon** **Sept'15 – July'16**

- Team Lead for ECO Robot for ABU Robocon 2015 theme and conducted a seminar on Arduino Programming for juniors.
- Implementation of PID Algorithm to improve the robot's efficiency in the traversal and interfaced various sensors.

## *KEY PROJECTS*

**Pani Puri Vending Machine** **Dec'16 – Present**

- Designed and manufactured a prototype machine that automates the process of assembling & serving a Pani Puri.
- Worked on auto-indexing algorithms to improve the machine's serving efficiency.

**Prewarning system for Water Availability** **May'16 – Present**

- Designed an IOT based system to improve the refilling capacity in water tanks deployed in railway coaches.
- Challenges included to work on coach shuffling of trains & mapping water level data to appropriate operational trains and inform the nearest refilling station. Currently deployed in Coimbatore Express.

**DiWAM - Digital Water Quality Management, Assessment and Monitoring** **Jan'17 – April'17**

- An end-to-end solution to the problem, with a hardware Water Quality Management kit that gauges the water sample for various parameters and sent over to the cloud. Detailed analytics is done and water bodies are marked safe or unsafe after assessing these parameters and checking if they lie in the range as specified in standards.
- Designed a missed call service notification system to get status of water bodies

**SAPER (Semi-Autonomous Pipeline Exploration Robot)** **May'16 – Oct'16**

- Developed a one-stop solution to undertake a visual inspection of pipes and document the extent of corrosion and damages in real-time environments based on NI hardware myRIO and software LabVIEW.
- Also, helped in planning critical strategies for extending the lifespans of pipeline systems.

## *TECHNICAL SKILLS*

**Hardware** NI myRIO, AVR and 8051 Microcontrollers, Arduino, Raspberry PI, OSVR.
**Software** Visual Studio, Processing, Linux OS, Latex, NI LabVIEW, Netbeans, Selenium, Unity3D, MIT App Inventor, MATLAB
**Languages** Embedded C, C, C++, Java, Python, HTML, CSS3, PHP, MySQL, Oracle, Scratch.

## *PUBLICATIONS*

- *"An Analytical Approach to Wireless Communication Using Vodka Vapours"*, International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), DOI: 10.17148/IJARCCE.2016.5274.
- *"A Personal Utility Vehicle Using Arduino"*, International Journal of Engineering Research (IJER), DOI:10.17950/ijer/v5s3/310.