

HackAThon

# Gujrat Industrial -19

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Mrugesha Panchal

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IIT Ram, Ahmedabad.

## Introduction



Education Department Government of Gujarat has taken a series of initiatives to design and develop innovative processes and ecosystem across its affiliated colleges and universities. At the state level, SSIP is a pioneering series of interventions and Gujarat Hackathon is an annual flagship program where young students can leverage their technical skills to solve real-life challenges posed by various stakeholders. Last year, during “Smart Gujarat for New India”, 17 departments of Govt. of Gujarat like Agriculture, Home, Urban Development, Port and Transport, Energy and Petrochemicals and others shared 213 challenges to all students across universities for solving them and creating innovative solutions. Students from across disciplines like BCA, Engineering, MCA, MSc IT, Pharmacy and allied branches had participated in this one of its kind program at a state level. The grand finale of Hackathon program,” Smart Gujarat for New India” 2018 was hosted at PDPU. Shortlisted 150 teams comprising 917 students from 11 universities across 15 districts of Gujarat participated in a grand finale on 24th-25th March in a nonstop 36 hour efforts.

By involving the students with real challenges of MSMEs, we wish to leverage skills of youth while the industrial units can get access to talents in their vicinity who could work on their issues. This will create a win-win situation. This could turn out to be a very frugal innovation process where



the State can facilitate such programs and culture can be developed. Rather in long run, it will change the mindset of academia so that more and more of them guide their students to take up such real-world challenges as their project/research work. This will cement the linkages among industry, academia, and society in long run. At the beginning of this year's hackathon process, students, faculty guides and nearby MSMEs can also sit together to define granular challenges apart from pooling challenges from industries by themselves. This will bring better ownership for the problem of giver and academia. In the application phase, multiple teams can apply to work on shared challenges. Sometimes, group mentoring to teams working on similar challenges can be facilitated. As Gujarat is having a wide range of MSMEs, students from different discipline can get an opportunity to work on their issues and opportunities

**Who will share challenges**

- Small and Medium Enterprises
- Cottage industries
- Large Industries
- Corporates
- Public Sector Enterprises

**Who will participate in solving challenges**

- Students of any streams in any academic campus in Gujarat
- Alumni of any academic campus who have passed in the past 5 years
- Student Innovators, Start-ups as per SSIP mandate
- Students from schools (9th – 12th)

**Who will mentor the teams**

- Sector-specific academic experts as nominated by SSIP cell
- Industry mentors who have given challenges
- Industry mentors pooled from different industry clusters, associations, chamber of commerce and allied organizations

- Faculty guide of colleges from which teams are participating

**Role of Industries/ Organizations who are sharing challenges**

- Share curated specific problem statements
- Provide mentors, reviewers
- Periodically interact with the teams who are working on their challenges
- Apart from small and medium enterprises, others should give financial awards to the best teams who might have developed innovative solutions
- During the hackathon, send experts to review applications
- Post-hackathon support to the best teams and potential solutions

**A benefit to Innovators/Teams**

- Exposure to real-world challenges and opportunities to work on them
- Access to experienced industry mentors
- Opportunity to win awards, prizes and cash awards
- Access to Pre incubation facility by SSIP grantees at SSIP Hub
- Access to SSIP grant up to 2 lacs for POC development & Average 25K for IPR protection
- Opportunity to take some of the spin-off innovations to market as enterprises
- Access to participate in State level Innovation Exhibition, Expo for shortlisted teams
- Possible hiring by the industries if they find potential in the teams

<http://ssipgujarat.in/gih/gih.php>

## Journey to Gujrat Industrial HackATHon 2018

It was not quite a new thing for me because I am second time participating in any Gujrat government HackATHon. But the new system of observing and working in the hackathon for me still because this time in hackathon I selected Hardware related topic.

In this hackathon, we work on Hardware related topic. We choose to make a Digital water management topic which has problem statement is GIH18 and team id is TG000543.

In this, we have to work very hard because only i only have knowledge about hardware my other teammate is going to work on hardware the first time. So on one way, it was quite hard for them but in another way it was quite difficult for them to work on hardware for the first time in a state level hackathon. Because of this reason I am enjoying it a lot because they are working very hard for it.

HackATHon over here and we again make one mistake as per our rule. We make mistake to understand the given problem statement and on the second round of jury, we realized that our actual problem statement is to find a level of water and to find a quality of water not to manage water.

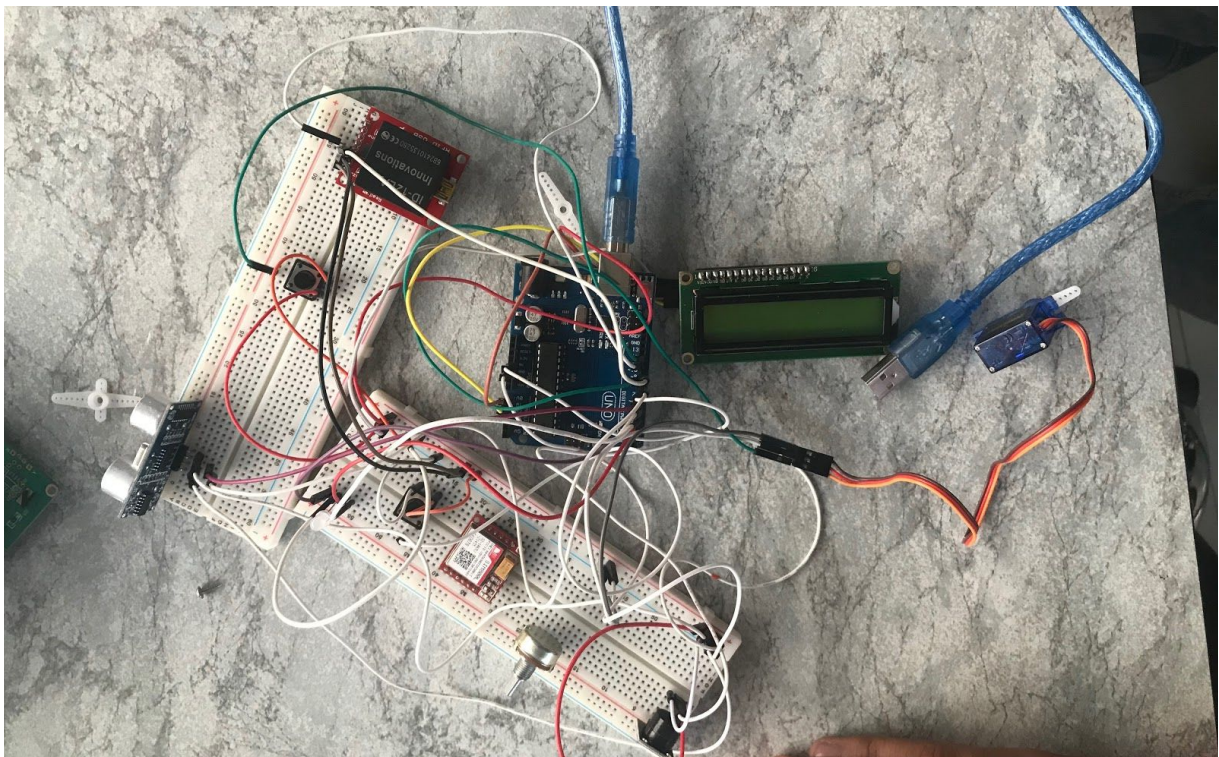
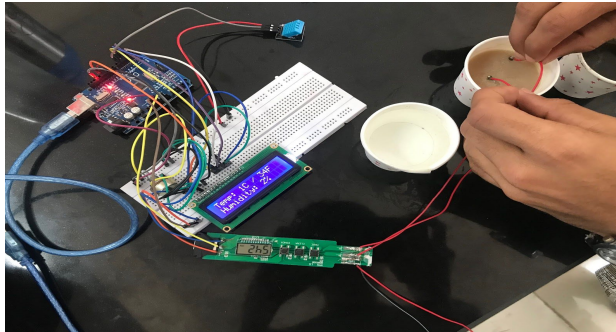
So our journey starts from here. For the first few hours, we are in silent mode. We just have one night to make our product we don't have any sensor which can help us to detect the quality of water. And almost every shop of Ahmedabad says us no for the availability of water quality sensor. Then I got the idea. We order on TDS meter and we broke it and make sensor using it. And also detect water level using an ultrasonic sensor. And a done project in the morning. we also do some jugaad in it.

So let's see we got success to impress a jury or not.

We also did yoga there in the early morning and eat yummy food.

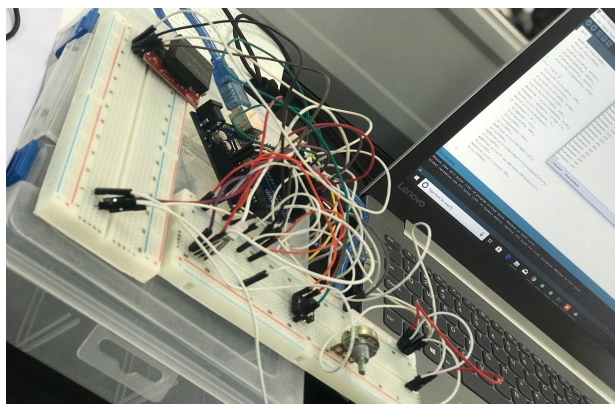
And once again one more hackathon end over here. With learning, sharing, and making.

## Photos:





Photos:





## Conclusion

### Reading Rainbow Tip:

- Learn Hardware from very first begins
- Learn problem-solving
- Learn to Manage your team in critical condition
- Learn to implement things which are totally out of think
- Explore ideation
- Explore the water problem and quality field.

