January 2019 Report

Cisco thingQbator

Submitted to

NASSCOM FOUNDATION

Submitted by

project
DEFY
Design Education For Yourself

Operations

Plan for January 2018: A fixed set of deliverables planned earlier were maintained in this month by the team -

1. Third Li2 workshops were carried out and completed successfully at all the Universities.
2. Cohort - 1 Hackathon has been successfully executed at IGDTUW, IIT(BHU), TAT and IIITM-K.
3. thingQbator, IIT(BHU) was launched and inaugural function held on 18th Jan 2018.
4. Cohort-2 application forms has been made live and student engagement plans at all the Universities are in motion.

Challenges faced in January 2018: The challenge faced is the appointment of the Lab Administrator at all the thingQbators.

Launch Event

IIT(BHU) thingQbator was inaugurated by **Prof. Pramod Kumar Jain, Director IIT(BHU) Varanasi** on **18th Jan 2018.** Launch function got attended by more than 250 students. Launch event was covered by several local and national print media.

Post launch, Prof. Pramod along with other dignitaries visited the thingQbator and interacted with Cohort-1 teams, encouraging them to take their idea to next level MVP. **Viswanathan Iyer, VP - Architectures, CISCO** delivered an one hour session on entrepreneurship to more than 50 students.

Cohort-1 Hackathons

IGDTUW - Delhi

Date of Hackathon: 5,6 & 7 Jan [9AM to 5PM]

Total No. of Attendees & Teams: 10 Teams and 25 participants

Mentor & Judges: Prasanth and Dheeraj as mentors and Judge. Prof. Gaurav - Judge. Dr. Amita Dev (VC, IGDTUW), Prof R K Singh (Registrar, IGDTUW), Dr Arun Sharma (SPOC, IGDTUW) attended as Guests.

Winner of the Hackathon [brief about the project]: THINKOVATER is building a device for fall detection for elderly and handicaps and sends alert to the caretaker.

TAT - Bhubaneshwar

Date of Hackathon: 23 & 24 Jan [9AM to 9PM]

Total No. of Attendees & Teams: 12 Teams and 30 participants

Mentor & Judges: Dheeraj as mentors and Judge. Lyle and Prasanth- remote mentors over webex. Dr. Jonathan Joshi (founder and CEO -Eduvance) was the guest Judge and delivered a talk on entrepreneurship.

Winner of the Hackathon [brief about the project]: **TEENOVATION** is working on a smart and connected lpg cylinder roller.

TECH TINKERS are working on app based platform to monitor public toilet cleanliness.
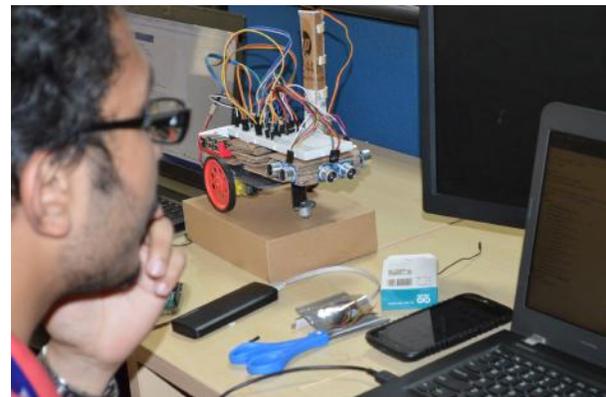

IIITM-K Trivandrum

Date of Hackathon: 12 & 13 Jan [9AM to 9PM]

Total No. of Attendees & Teams: 11 Teams and 34 participants

Mentor & Judges: Mentor- Sakir. Judge - Shaiju Kumar, Founder TOSIL Systems.

Winner of the Hackathon [brief about the project]: **SMART VENT** is making a smart device to monitor and regulate the air quality of any room.

IIT-BHU VARANASI

Date of Hackathon: 12 & 13 Jan [5PM to 5PM]

Total No. of Attendees & Teams: 14 Teams and 45 participants

Mentor & Judges: Mentors & Judge- Prasanth and Lyle. Guest Judge - **Dr. S N Upadayay**, former Director IIT(BHU).

Winner of the Hackathon [brief about the project]: qLock has developed a POC of a double authentication biometric safe.

विजेता के मॉडल से शुरू होगा स्टार्टअप

वाराणसी | निज संवाददाता

आईआईटी बीएचयू में तकनीकी दक्ष विद्यार्थियों के लिए, लगातार 24 घंटे चलने वाली हेकैथॉन स्पर्द्धा सोमवार को संपन्न हुई। इसमें तत्काल दी गई समस्या का समाधान खोजने वाली विजेता टीम के मॉडल से स्टार्टअप किया जाएगा। मालवीय उद्यामिता संवर्धन केंद्र इसमें मदद करेगा। हेकैथॉन में क्षितिज पांडेय, युगुल सिंह, अमर राजपूत व सक्षम की टीम ने समस्या का समाधान खोजा और एक मॉडल पेश किया है।

इनके मॉडल के आधार पर संस्थान की तकनीकी दक्ष टीम स्टार्टअप में सहयोग देगी। इनके द्वारा हल समस्या को प्रोजेक्ट के रूप में ढालने की तैयारी शुरू हो गई है। इंटरनेट ऑफ थिंग्स से संबंधित

आईआईटी बीएचयू को सोमवार को हेकैथॉन प्रतियोगिता में मॉडल बनाते प्रतिभागी।

समस्या के इस प्रतियोगिता में करीब 65 छात्र-छात्राओं ने भाग लिया। प्रतियोगिता के जज आईआईटी बीएचयू के पूर्व निदेशक प्रो. एसएन उपाध्याय तथा

उद्यामिता संवर्धन केंद्र के समन्वयक प्रो. पीके मिश्रा रहे। दीपक शर्मा तथा सिस्को लैब के मैनेजर विक्रम की देख-रेख में प्रतियोगिता संपन्न हुई।

January 2018 - Highlights

Best Practices from all thingQbators

• IIITM-K thingQbator hosted open design challenge wherein students collaborated, making and hacking at the local problem. This successfully generated a good footfall at the thingQbator and hence huge inflow of applications for Cohort-2. Many of these sessions were lead by the student community of Cohort-1.

• IGDTUW thingQbator hosted multiple sessions on design thinking, AI/ML and 3D printing to engage the students for Cohort-2.

• Entire thingQbator team from all partners - Cisco, Nasscom Foundation , Li2 and Defy came together at the All Hands - 2019, held on 15th and 16th Jan. Sessions lead by Makerspace Managers, aimed at improving the thingQbator processes and culture building were executed successfully through knowledge sharing and open discussion among the team. Four external Speakers gave rousing talks and shared their stories on community building.

IGDTUW - Delhi

INNOVATORS are working on an autonomous search and rescue drone. Drone uses automatic beacon localisation to track the stranded user in tough terrains. Team has successfully built a locator for the beacon and plans to give it a flight test next.

G GEEKS has built a system to automate the parking in parking lots as well as the streets. It take cares of the billing too in paperless method. The team has a MVP in place and has deployed it in the University campus along with a chatbot.

THINKOVATERS are working on a device to detect fall in elderly and alert the caretaker. Currently team is doing more user base research and user validation.

WE CONNECT is developing a connected door lock which alert the user in potential intrusion or breakin cases. Team is working on making the full stack software that will accompany the lock.
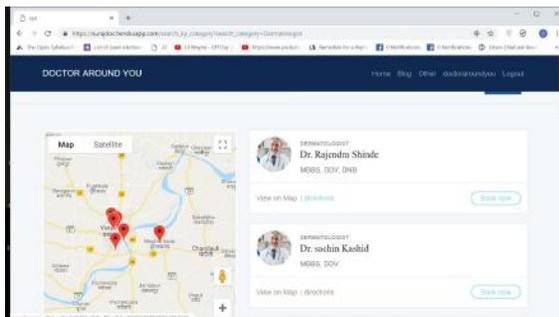
[INNOVATORS Drone setup]

IIT(BHU) - Varanasi

DOCTOR AROUND YOU is platform to connect doctors to the patient. It works like a Uber for doctors. Team is polishing up the webapp with UI/UX iterations.

EAGLE EYE has connected a sensor module to drone which can take air quality readings from multiple points and chart a map of pollution. The drone moves autonomously and reduces the cost of capex needed to build multiple air monitoring towers.

SMART DUSTBIN has come up with an unique way to incentivize people to throw garbage in bins rather than littering. Its a social responsibility platform with incentivizes the user in form of redeemable points for each time user makes use of this dustbin.

IRON FIST has developed a low cost bionic prosthetic arm which works with a simple interface. And looks realistic which helps with avoiding the social stigma to the wearer. Currently the team is reaching out to the users to understand the real life challenges better.

DOCTORS AROUND YOU

SMART DUSTBIN

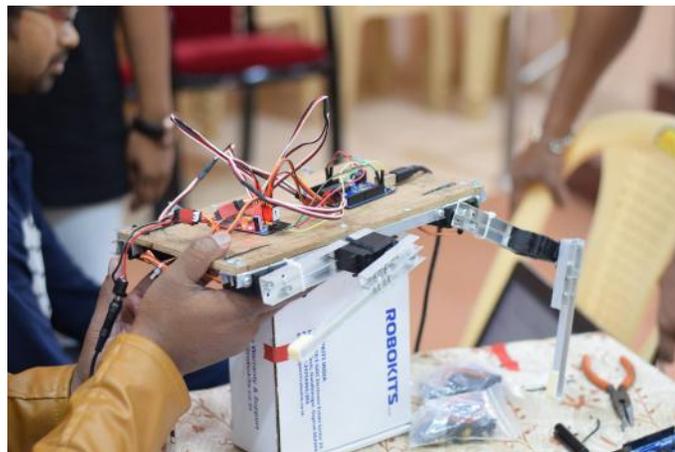BIONIC ARM

TAT - Bhubaneswar

TEENOVATION has developed a POC for a connected smart lpg cylinder roller, which can alert the user in case of gas leakage and also when the cylinder is about to run out of gas.

TECH TINKERS has developed a app and hardware based public toilet cleanliness monitor platform called Swacchalaya. This system helps the user to navigate to closest public toilet and also give feedback on cleanliness. This platform will also provide crucial data to Govt agencies for efficient cleaning and maintenance.

TOP-TECH_GUYS is a team working on a four legged robot. The robot can move around and sit. The team is working on the app to develop learning content, delivered using the robot.
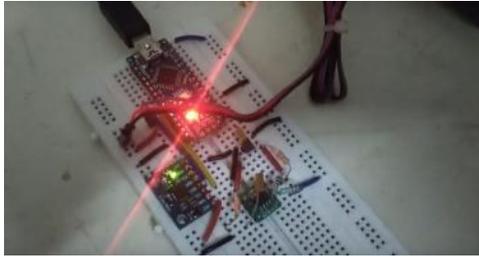

SWACCHALAYA app
Screenshot

WALKING ROBOT

AVV - Coimbatore

SMEOZONE is working on a virtual authentication device which works on blockchain and biometric. Team is working on fingerprint sensor for the next iteration.

TECHYDNA is working on a prototype for module which attaches to any drone. And makes the drone capable of locating stranded people in natural disaster and do supply drops.

SAK has developed a POC to monitor a workers efficiency using several parameters. The team has won many Hackathon prize money and grants and now has their own startup.

[SAK - click here for video on the POC}   [TECHYDNA - testing flight of the drone]
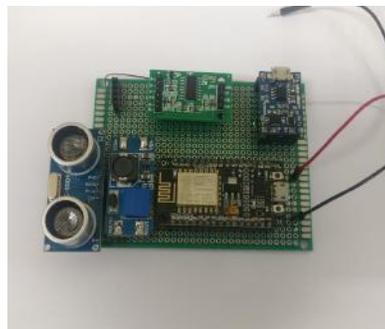
IIITM-K Trivandrum

TEAM CONNECT has developed a smart dustbin platform with data visualization capabilities. Highly useful for garbage collectors in tech parks or such campuses, team has deployed a MVP in the college campus and working towards scaling it to more places.

EAGLES has made a virtual watchman, which processes the live CCTV footage and alerts the user in case of any suspicious activity or intent. Team is looking at different avenues for use cases and user.

SMART VENT is working a smart vent which monitors the room's oxygen and humidity and circulates air from outside if needed.

SMART SHOPPE is creating a smart basket for self billing and checkout at the supermarkets. And it can detect and send alert for any unbilled items in the basket.

[TEAM CONNECT'S hardware Prototype]

Inventory Updates

The entire Inventory has been maintained at the common Project Folder [here](.).

Tech Mentorship at all thingQbators [January 2018]

Name of thingQbator	Number of Sessions	Number of Teams Mentored
IGDTUW - Delhi	6	7
IIT(BHU) - Varanasi	3	6
TAT - Bhubaneswar	5	4
AVV - Coimbatore	2	7
IIITM-K - Trivandrum	4	4

thingQbator footfall [December 2018]

Name of thingQbator	Unique/Individual Footfall	Total Footfall
IGDTUW - Delhi	12	35
IIT(BHU) - Varanasi	10	30
TAT - Bhubaneswar	180	40
AVV - Coimbatore	65	100
IIITM-K - Trivandrum	60	160

Calendar Snapshot

Date	IIIT-K	Amrita	TAT	BHU	IGDTUW
Tue, Jan 1, 2019				Vacation	Vacation
Wed, Jan 2, 2019		Li2 Workshop		Vacation	Vacation
Thu, Jan 3, 2019		Li2 Workshop			Vacation
Fri, Jan 4, 2019					Vacation
Sat, Jan 5, 2019	Li2 Workshop				Hackathon
Sun, Jan 6, 2019	Li2 Workshop				Hackathon
Mon, Jan 7, 2019					Hackathon
Tue, Jan 8, 2019					
Wed, Jan 9, 2019					Li2 Workshop
Thu, Jan 10, 2019					Li2 Workshop
Fri, Jan 11, 2019					
Sat, Jan 12, 2019	Hackathon			Hackathon	
Sun, Jan 13, 2019	Hackathon			Hackathon	
Mon, Jan 14, 2019					
Tue, Jan 15, 2019	ALL HANDS	ALL HANDS	ALL HANDS	ALL HANDS	ALL HANDS
Wed, Jan 16, 2019	ALL HANDS	ALL HANDS	ALL HANDS	ALL HANDS	ALL HANDS
Thu, Jan 17, 2019	ALL HANDS	ALL HANDS	ALL HANDS	ALL HANDS	ALL HANDS
Fri, Jan 18, 2019				Launch Event	
Sat, Jan 19, 2019	Open		Li2 Workshop	Vacation	
Sun, Jan 20, 2019	Open		Li2 Workshop	Vacation	
Mon, Jan 21, 2019		Internal			
Tue, Jan 22, 2019		Internal		Li2 Workshop	
Wed, Jan 23, 2019		Internal	Hackathon	Li2 Workshop	
Thu, Jan 24, 2019		Internal	Hackathon		
Fri, Jan 25, 2019		Internal			
Sat, Jan 26, 2019	Vacation	Vacation	Vacation	Vacation	Vacation
Sun, Jan 27, 2019		Internal			
Mon, Jan 28, 2019		Internal			
Tue, Jan 29, 2019					
Wed, Jan 30, 2019					
Thu, Jan 31, 2019					

[Calendar Snapshot Link]

Conclusion

Plan for February 2019: All the thingQbators will gear up for the Demo Days and launch of Cohort-2. The end to end planning and execution of Cohort -2 has already begun at all thingQbators and it is planned to kick off in February 2019 [Application Open]. Additionally first Li2 workshops for Cohort are slated to begin in February.

All the thingQbators are working in a growing and evolutionary manner. All the students are working actively and there is significant growth and hope to see them again in Cohort-2.