

# SRI VENKATESWARA COLLEGE OF ENGINEERING DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ELECTRONICS AND COMMUNICATION ENGINEERS ASSOCIATION, THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS STUDENTS FORUM - SVCE, ROBOTICS AND ARTIFICIAL INTELLIGENCE CLUB

# REPORT ON MAKE-A-THON 5.0 A 24-hour HACKATHON conducted on 22/03/2024 and 23/03/2024

Make-a-Thon 5.0 was a 24-hour hackathon organized by the Electronics and Communication Engineers Association (ECEA - SVCE) in association with the Institution of Electronics and Telecommunication Engineers – Chennai Center and Robotics and Artificial Intelligence Club (RAIC). The event commenced from 22<sup>nd</sup> March, 2024 at 10:00 AM to 23<sup>rd</sup> March, 2024 at 10:00 AM (24 hours). Make-a-Thon 5.0 took place at the Multi-purpose Hall at Sri Venkateswara College of Engineering. Make-a-Thon 5.0 challenged students to use their creativity and provide innovative solutions to develop competent apps for the provided problem statement, which was based on significant contemporary issues in our society. The event witnessed the participation of a total of 37 teams (187 students) from all over the state.

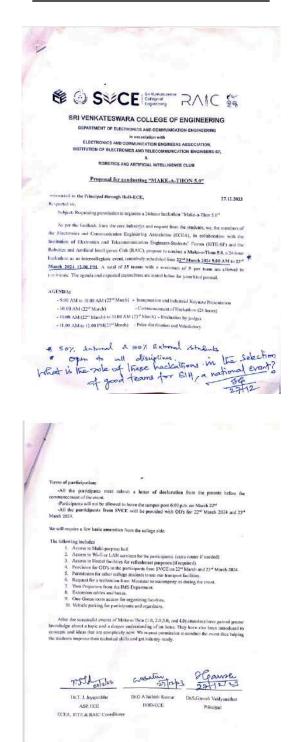
# **Details of the event:**

Commencement of the event	22nd March 2024 (10:00 AM IST)
Ending of the event	23rd March 2024 (10:00 AM IST)
Total teams	37 teams
Total Participants	187 students
Team size	4-6 members
Venue	Multipurpose hall, SVCE

### **FLYERS OF MAKE-A-THON 5.0**



### PROPOSAL OF MAKE-A-THON 5.0



# **About the Inaugural Ceremony:**

The inaugural ceremony of Make-A-Thon 5.0 began with great excitement and anticipation. Participants began arriving at the venue around 8:30 am. The settling process ran smoothly, with volunteers welcoming attendees and providing them with the necessary information to navigate the day's activities.

At 9:00 am, the event commenced with a heartfelt prayer followed by a warm welcome speech delivered by Ms. Srivarshni, the Treasurer of IETE, emphasizing the spirit of collaboration and innovation that defines Make-A-Thon. Followed by the introduction of the chief guests by Mr. Manoj Kumar and Mr. Ramanathan, Joint Secretaries of IETE and RAIC. They introduced the esteemed guest, Dr. N. Venkateswaran, Professor, SSN who graced the occasion with their presence.

The ceremonial lighting of lamps at 9:20 am marked the official inauguration of Make-A-Thon 5.0, symbolizing the illumination of ideas and the beginning of a brighter journey.

Dr. G. A. Sathish Kumar, Head of the Department of Electronics and Communication Engineering, addressed the gathering expressing his excitement for the event and encouraging participants to make the most of this unique opportunity to showcase their talents and ideas.

Following Dr. Sathish Kumar's address, the stage was set for the inaugural talk by the chief guest, Dr. N. Venkateswaran, a distinguished Professor from SSN. His inspiring words captivated the audience and made a meaningful impact through their ideas. Dr.L.Vanitha, Professor, SA Engineering College joined us for inauguration as a Guest of Honour.

Finally, with immense comfort and enjoyment, the Make-A-Thon 5.0 had officially begun at 10.00AM on 22nd March, 2024, and participants were ready to unleash their creativity and innovation.



**INAUGURATION OF MAKE-A-THON 5.0** 

# **About the event:**

A total of 126 teams registered for the event out of which 37 teams with 4 to 6 members in each team were shortlisted based on the abstract submitted. The preliminary selection was done based on creativity, originality, technology stack, and feasibility. The selection process was carried out by faculty coordinators and student mentors from the Robotics and Artificial Intelligence club. The problem statements for Make-a-Thon 5.0 were aligned with the emerging technologies in the field of engineering.

### The domains were:

- 1. Agriculture and Water Resource Management
- 2. Authentication and Security-Safety and Security
- 3. Automation
- 4. Business and Finance- Sea and Fishery
- 5. Cultural Heritage and Education
- 6. Disaster Preparedness Food and Preservation
- 7. Health and Lifestyle
- 8. Healthcare
- 9. Public Transportation- Sanitation and Waste Management
- 10. Energy- Environmental Conservation

During the entire event, the mentors and alumni periodically surveyed the progress of all the teams and also provided technical knowledge and mentoring when required. The 37 teams pushed themselves to innovate new models and solutions for their problem statements. Food and refreshments were provided for the participants throughout the event.

City Union Bank provided monetary sponsorship for Make-a-Thon 5.0. Mr. Aadhavan, Alumni of SVCE, ECE (2004-08) and Ms. Israth Rehana, Senior Analyst, LatentView Analytics also provided monetary sponsorship for Make-a-Thon 5.0. Magnus Vista played a pivotal role in fulfilling our hospitality requirements for facilitating the chief guests. Wolfram provided a free subscription for their website to the winners.

# **Objectives:**

- To provide the best pedagogical atmosphere of the highest quality through modern infrastructure, the latest knowledge, and cutting-edge skills.
- To fulfill the research interests of faculty and students by promoting and sustaining in-house research facilities so as to obtain reputed publications and patents.
- To educate our students, the ethical and moral values, integrity, leadership, and other quality aspects to cater to the growing need for values in society.

### **Programme Educational Objectives (PEOs):**

- **PEO1:** Create value to organizations as an EMPLOYEE at various levels, by improving the systems and processes using appropriate methods and tools learnt from the programme.
- **PEO2**: Run an organization successfully with good social responsibility as an ENTREPRENEUR, making use of the knowledge and skills acquired from the programme.
- **PEO3**: Contribute to the future by fostering research in the chosen area as an ERUDITE SCHOLAR, based on the motivation derived from the programme.

# **Outcomes:**

- Participants gained a better understanding of real-world applications of their technical knowledge and received feedback on their projects from industry professionals.
- Participants gained exposure to potential career opportunities, internships, and collaborations through interactions with mentors, recruiters, and academic institutions.
- The event served as a launchpad for future endeavors, empowering participants to pursue their engineering dreams with newfound confidence and expertise.

# **Program Outcomes (POs):**

- PO 2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO 3: Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO 5: Modern Tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO 9: Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO 10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

On the whole, "Make-a-Thon 5.0" strived to equip participants' with the skills and mindset required for hardware and software hackathon events, aligning with Program Educational Objectives and Program Outcomes.

# <u>List of External Colleges that participated in Make-a-Thon 5.0:</u>

- St.Joseph's College of Engineering, Chennai.
- Velammal Engineering College, Chennai.
- SRM Easwari Engineering College, Chennai.
- RMK Engineering College, Chennai.
- SSN College of Engineering, Chennai.
- Saveetha Engineering College, Chennai.
- St. Joseph's Institute of Technology, Chennai.
- Rajalakshmi Institute of Technology, Chennai.
- PSNACET, Dindigul.

# **About the Judges:**

There were three rounds of judging. The first two rounds of judging were done by the faculties of SVCE.

Judges for the 1st Round of Make-a-Thon 5.0:

- 1. Dr.N. Venkateswaran, Professor, SSN College of Engineering.
- 2. Mr. Aadhavan, Alumni of SVCE, ECE (2004-08), Technical Lead, Viasat Inc., Chennai
- 3. Dr. N. Kumaratharan, Professor/ECE
- 4. Dr. P. Jothilakshmi, Professor and AHoD/ECE
- 5. Dr. S. R. Malathi, Professor/ECE
- 6. Dr. D. Menaka, Associate Professor/ECE
- 7. Dr. M. Bindhu, Associate Professor/ECE
- 8. Mrs. K.S. Subhashini, Assistant Professor/ECE
- 9. Mrs.K Srividhya, Assistant Professor/ECE
- 10. Mr.S P Sivagnana Subramanian, Assistant Professor/ECE
- 11. Mrs.S Kalyani, Assistant Professor/ECE
- 12. Mrs.C Gomatheeswari Preethika, Assistant Professor/ECE
- 13. Mrs. S.M. Mehzabeen, Assistant Professor/ECE

## Judges for the 2nd Round of Make-a-Thon 5.0:

- 1. Dr.L. Vanitha, Professor, SA Engineering College.
- 2. Mr. Sangeeth Kanna P, Alumni of SVCE, ECE (2019-23), Associate Engineer, Geodis India Pvt Ltd.
- 3. Mr. Hari Prasad P, Alumni of SVCE, ECE (2019-23), Associate Engineer, Geodis IT US.
- 4. Mr. Deepak Akash Raj, Alumni of SVCE, ECE (2019-23), System Engineer, HCL.
- 5. Dr. S. Kumaravel, Associate Professor/EEE
- 6. Dr. T. Annamalai, Associate Professor/EEE
- 7. Ms. A. Indumathi, Associate Professor/INT
- 8. Dr. T. J. Jeyaprabha, Associate Professor/ECE
- 9. Mrs.R. Kousalya, Assistant Professor/ECE
- 10. Mrs.B Sarala, Assistant Professor/ECE
- 11. Mr.P. Muthukumaran, Assistant Professor/ECE
- 12. Mr.M. K. Varadarajan, Assistant Professor/ECE
- 13. Mr. P. Arul, Assistant Professor/ECE
- 14. Mr.S. Elangovan, Assistant Professor/ECE
- 15. Mr.L.K. Balaji Vignesh, Assistant Professor/ECE

Judges of the final round of Make-a-thon 5.0:

- 1. Mr. Sandeep, Software Engineer, Boat, Bangalore.
- 2. Mr. Siddique Afraaz N, Alumni of SVCE, ECE (2019-23), Member technical staff, Zoho corporation.
- 3. Mr. Sivasubramanian R, Alumni of SVCE, ECE (2019-23), Associate QA SW Engineer, Extreme Networks.
- 4. Mr. Prashanna Rangan, Alumni of SVCE, ECE (2019-21), Senior Mechatronics engineer, Thryv Mobility.
- 5. Mr. Rakesh Elamaran, Alumni of SVCE, ECE (2016-20), Security Engineer 2, Comcast.
- 6. Ms. Israth Rehana, Alumni of SVCE, ECE (2015-19), Senior Analyst, LatentView Analytics.
- 7. Dr. Indhumathi Vijayarangan, Alumni of SVCE, ECE (2018-22), Associate Software Engineer, Eurofins IT Solutions.
- 8. Ms. Reshma Suresh, Alumni of SVCE, ECE (2019-23), Member Technical Staff, Zoho corporation.
- 9. Ms.Krishna Priya S, Alumni of SVCE, ECE (2019-23), Software Analyst, Bounteous.
- 10. Mr. Guganesh, Alumni of SVCE, ECE (2019-23), Associate Software Engineer, Inatech India Pvt Ltd.

# **About Valedictory:**

After the long 24 hours filled with excitement and innovation the ceremony commenced with the announcement of the winners of MAKE-A-THON 5.0, Mr. Rakesh Elamaran was invited to distribute prizes to the software team winners 'Gloriyavin code-uh'. Following this, Mr. Prashanna Rangan and Mr. Sandeep awarded prizes to the hardware winners 'Tech Orcas'.

A moment of excitement surged when Mr. Sandeep announced an internship offer at BoAt for the hardware team 'Circuit Crafters'. This unexpected opportunity added an extra layer of achievement to the ceremony, symbolizing the recognition of talent and hard work.

Mr. S Tamil Nilavan, Joint Secretary of IETE-SF, delivered the thanksgiving speech on behalf of the student body, expressing his gratitude to the faculty, volunteers, participants, administration, sponsors and Dr.G.A.Sathish Kumar (HoD of ECE) for their support and guidance throughout the journey. Finally, the event concluded with the National Anthem.



DURING THE VALEDICTORY OF MAKE-A-THON 5.0

# Winners of Make-A-Thon 5.0:

Position	Team Name/ College name	Problem Statement	Team Details
Winner (Hardware)	Tech Orcas/ RMK Engineering college	Automatic Drug Dispenser	1. Vishal P V 2. Sherma Thangam S 3. Vakati Nanda Vardhan 4. Sherma Raja A
Winner (Software)	Gloriyavin Code-uh/ Sri Venkateswara college of engineering	Create an electronic voting system that integrates secure communication protocols with blockchain technology.	<ol> <li>Sanjay Kumar V</li> <li>Rahul T V</li> <li>Madhuvansh S</li> <li>Shrimathi G</li> <li>Surya Dev R G</li> <li>SanjaiSolaiRaja</li> </ol>
First Runner Up (Hardware)	ElectraElite/ Sri Venkateswara college of engineering	Design a wearable glove with sensors and feedback mechanisms to assist users in learning sign language. The glove should provide real-time guidance on hand gestures and finger movements to aid in language acquisition	<ol> <li>Sujitha N</li> <li>Shanmugapriya P</li> <li>Shruthi R</li> <li>Siva Lakshmi B</li> <li>Varsha S</li> <li>Yuvasri A</li> </ol>
First Runner Up (Software)	Yukthi/ SSN College of Engineering	Education for all Arivagam	1. Sujay R 2. Sasmitha Baskaran 3, Prithik N 4. Nithish S
Second Runner Up (Hardware)	Spears/ St. Joseph's college of engineering	Create gloves with haptic feedback technology to guide users through physical spaces without the need for visual or auditory cues. The gloves should provide vibrations or pressure sensations to indicate directions and obstacles.	<ol> <li>Thomas Epsiba NJ</li> <li>Roshni Kaviarasu</li> <li>Mohamed Ajmaldeen</li> <li>Prasana SM</li> <li>Swasthika M</li> <li>Stephi Priscilla</li> </ol>

Second Runner Up (Software)	Cletocite 3.0/ Sri Venkateswara college of engineering	Cultural Heritage Preservation	<ol> <li>Bhuvaneshwaran A</li> <li>Idhika P</li> <li>Gowtham S</li> <li>Akeel Ahamed</li> <li>Aravindan C</li> <li>Cletus Rajkumar</li> </ol>
Internship Winners (Provided by BoAt)	Circuit Crafters/ Sri Venkateswara college of engineering	Create a non-intrusive sleep monitoring device that analyzes sleep patterns and environmental factors.  The device should provide actionable insights and suggestions for improving sleep quality, such as adjusting room temperature, suggesting relaxation techniques, or recommending changes to sleep habits	<ol> <li>Abiyana S</li> <li>Aarthi Kannan K</li> <li>Deepa A</li> <li>Chandrika V</li> </ol>

# **Snapshots of Make-A-Thon 5.0 Winners:**



TECH ORCAS - WINNERS OF MAKE-A-THON 5.0 HARDWARE



GLORIYAVIN CODE UH - WINNERS OF MAKE-A-THON 5.0 SOFTWARE



ELECTRAELITE - FIRST RUNNER-UP OF MAKE-A-THON 5.0 HARDWARE



YUKTHI - FIRST RUNNER-UP OF MAKE-A-THON 5.0 SOFTWARE



SPEARS - SECOND RUNNER-UP OF MAKE-A-THON 5.0 HARDWARE



CLETOCITE 3.0 - SECOND RUNNER-UP OF MAKE-A-THON 5.0 SOFTWARE



CIRCUIT CRAFTERS - INTERNSHIP WINNERS OF MAKE-A-THON 5.0

# **Sample Certificates:**



along with
THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS - STUDENTS FORUM

ROBOTICS AND ARTIFICIAL INTELLIGENCE CLUB

# MAKE-A-THON 5.0 NATIONAL-LEVEL TECHNICAL HACKATHON

NATIONAL-LEVEL TECHNICAL HACKATHON Certificate of Participation

This certificate is presented to

Dr.G.A.Sathish Kumar

120 VEARS

Dr.T.J.Jeyaprabha

Dr.G.A.Sathish Kumar HOD-ECE ECEA, IETE-SF, RAIC CO-ORDINATOR



# **Attendance sheet:**

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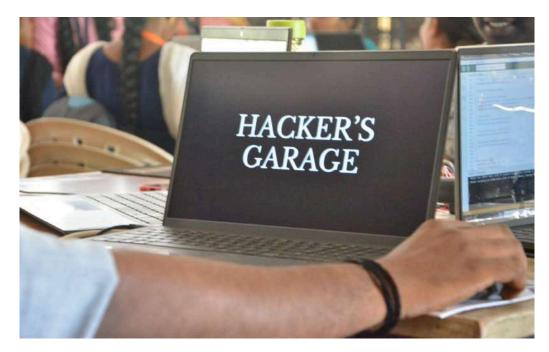
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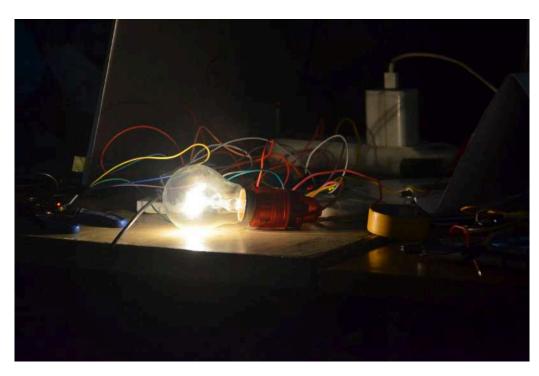
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# **Some Snapshots of Make-A-Thon 5.0:**



A TEAM DURING THE EVENT



AT THE TIME OF EVENT



A TEAM WORKING AT THE EVENT



DURING THE FIRST ROUND OF EVALUATION



DURING THE SECOND ROUND OF EVALUATION



DURING THE SECOND ROUND OF EVALUATION

# **Feedback from the Judges:**

"I recently had the privilege of serving as a panelist on the jury at the "MAKE-A-THON 5.0" hackathon on Mar 22nd and 23rd hosted by the department of Electronics and Communication Engineering of Sri Venkateswara College of Engineering. It was an incredible experience witnessing the dedication and innovation of the participating students. Despite the gap between academic learning and industry demands, each student showcased exceptional skills and a commitment to exploring the new avenues. I am truly honored to have been part of such an inspiring event. Huge thanks to the management for inviting me to contribute to this platform that nurtures the talents and aspirations of tomorrow's leaders".

Feedback from our Judge,

# Mr. Prashanna Rangan R

(R&D Senior Mechatronics Engineer, R2D2, IITM)

# Report prepared by:

- Ms.Saambavi PU (III Year ECE B), Mentor, RAIC.
- Ms.Lathikaa Shri S (III Year ECE B), Executive Member, ECEA.
- Mr. Tamil Nilavan S (II Year ECE C), Joint Secretary, IETE SF.
- 4) Mr.Ramanathan M (II Year ECE B), Joint Secretary, RAIC.



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Mr. Elangovan, AP, ECEA, IETE-SF SVCE, and RAIC Co-ordinator

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