

# MAKE-A-THON 4.0

31<sup>ST</sup> MARCH & 1<sup>ST</sup> APRIL, 2023

INTERCOLLEGE  
TECHNICAL  
HACKATHON

**SRI VENKATESWARA COLLEGE OF ENGINEERING  
(AUTONOMOUS AND AFFILIATED TO ANNA UNIVERSITY)  
PENNALUR, SRIPERUMBUDUR(TK), TAMIL NADU - 602 117, INDIA.**

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**(Autonomous- Affiliated to Anna University, Chennai)**  
**Sriperumbudur Tk. Pin- 602117, Tamilnadu, India. [www.svce.ac.in](http://www.svce.ac.in)**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Vision**

To excel in offering value-based quality education in the field of Electronics and Communication Engineering, keeping in pace with the latest developments in technology through exemplary research, to raise the intellectual competence to match global standards and to make significant contributions to the society.

**Mission**

- To provide the best pedagogical atmosphere of highest quality through modern infrastructure, latest knowledge and cutting-edge skills.
- To fulfil the research interests of faculty and students by promoting and sustaining inhouse research facilities so as to obtain the 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 the 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.



## **Message from the Head of the Department**



The Department of Electronics and Communication Engineering seeks to combine excellence in education with service to the industry. The department has experienced faculties with a strong commitment to engineering education who work with zeal and dedication to provide a constructive learning environment. They regularly organize workshops, training programs, conferences, and related activities for the benefit of the students' community. Our students are always encouraged to take part in co-curricular and extracurricular activities in various state-level / national-level competitions including national-level symposiums and international conferences that are conducted abroad.

Make-a-Thon 4.0, the inter-college technical hackathon was conducted on 31st March and 1st April, 2023 . There was an overwhelming response. I congratulate the faculties and the members of ECEA, IETE-SF and RAIC for making this event happen. It was beneficial for the engineering student community. I'm sure that the association and the clubs will organize many more events in the future.

Dr. S. Muthukumar  
HOD- ECE department  
SVCE

## Message from Faculty Coordinator



I'm exhilarated in releasing the Make-a-Thon 4.0 Magazine. Role of education in today's era is not only to pursue academic excellence but also requires overall development of a student. The department organizes technical and innovative events round the year helping the students become industry-ready.

The magazine is a glimpse of the inter-college hackathon conducted by our department - Make-a-Thon 4.0. There was an overwhelming response for Make-a-Thon and about 180 students from 10+ colleges participated in hackathon conducted.

I thank the Principal, the HoD, the faculties and the students for their extended support for every event.

Dr. T.J. Jeyaprabha  
Associate professor  
ECE department  
SVCE

## ABOUT THE CHIEF GUEST



**Dr.D.Vijendra Babu** is currently designated as Asst. Professor Sr. Grade, Department of Embedded Technology, School of Electronics Engineering (SENSE) at Vellore Institute of Technology (VIT), Vellore, India. He is a Reviewer of various referred International Journals/Conferences. He has successfully conducted the 2 Weeks AICTE Training & Learning Academy FDP on Wearable Technology for Healthcare during September 2022.

He is a Doctoral Committee Member of Anna University & VMRF, DU. He is currently the Honorary Secretary, IETE Chennai Centre (2022- 24), Secretary, Robotics & Automation Society (RAS), IEEE Madras Section & Secretary, Vehicular & Technology Society (VTS), IEEE Madras Section.

## ABOUT THE CHIEF GUEST



**Mr.M.Arun** is working as Assistant Professor in ECE, Panimalar Institute of Technology. He is serving as Chairman, IEEE Madras Young professional & Vice Chairman, IEEE TEMS Society, Secretary in IEEE EMC society, Treasurer, IEEE COMSOC Madras Chapter & Ex-com Member of IETE Chennai Center. He has got 14 Years of experience in teaching field.

He is also serving as member of editorial team of IEEE MAS Link (IEEE Madras section Newsletter) & IETE CHENLINK (IETE Chennai Centre Newsletter).

## ABOUT THE CHIEF GUEST



**Dr. Aswin Seshadri** is a Master of Technology in Embedded System, Bachelor of Engineering in Electrical and Electronics. He has 20 Years of rich experience in embedded Product Design and Development in various domains.

Has initiated and created values for one of the customer in display project where many tools to automate codes for customizing to different menus, languages, memory usage reduction / optimization for strings, character font optimization/compression, automatic user manual creation support tool, etc. for a low cost 32 language QVGA colour display

He is currently working as Deputy General Manager of Motherson Technology Services Motherson Technology, and also took the initiative to provide internship in various domains for the best performers of the event .



## ABOUT THE CHIEF GUEST



**Dr.Venmathi.A.R** is a Professor & Head of the Department of Biomedical Engineering of Kings Engineering College. She has a total teaching experience of 19 years. She received her PhD degree in Faculty of Information and Communication Engineering from Anna University in 2019. Her area of research includes Medical Image Processing.

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## ABOUT THE CHIEF GUEST



**Mr. Vishnu Sai** is our reknown alunmini of SVCE. We are very glad to be able to contact him today. He has played the role of president of RAIC, and was also the cofounder of FODSE during his time in our college. He is currently pursuing his MS in Software Systems Development at Tufts University. He has intern experience at qBotica, Malar electronics, DLK technologies in the field of machine learning, embedded systems and many more.

His projects include Basic Image Classification with TensorFlow, Classification of COVID19 using Chext X-ray Images in Keras, Image Classification with CNNs using Keras.

He has also won many award which include Best idea award - paper presentation, Technxt 2020, Student Judge - Arduino Debugging, Quarter Finalist - Swadeshi Microprocessor Challenge 2020.

# ABOUT MAKE-A-THON 4.0

The Make-a-Thon 4.0 was organized by the Electronics and Communication Engineers Association (ECEA) in association with IETE Chennai Centre and Robotics and Artificial Intelligence Club (RAIC) on 31st March and 1st April, 2023. It has set its mark as an intercollegiate event this year.

The Make-a-Thon 4.0 challenged students to think out-of-the-box and offer innovative ideas to build projects which will help address major real time problems in our country.

A total of 67 teams (300 students) registered for the event, out of which 30 teams (160 students) with 4 to 6 members in each team were shortlisted based on the abstract submitted.



The poster features a dark background with purple and white text. At the top, there is a white banner with logos for SVCE, RAIC, and other organizations. Below the banner, the text reads: 'SRI VENKATESWARA COLLEGE OF ENGINEERING', 'DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING', 'In association with IETE CHENNAI CENTRE'. The main title 'MAKE-A-THON 4.0' is in large, glowing purple letters. Below it, the subtitle 'A 24 Hour Intercollegiate Hackathon' is in a cursive font. The dates 'March 31 & April 1, 2023' are in purple. A yellow banner says 'REGISTRATIONS OPEN NOW !!'. Below that, 'WIN CASH PRIZES UPTO 40K !!' is in purple with double arrows. At the bottom, 'BEST PERFORMERS WILL BE PROVIDED WITH INTERNSHIP OPPORTUNITY !!' is in white. The bottom left has 'REGISTER @ https://make-a-thon-alpha.vercelapp/' and a QR code. The bottom right has contact information for Prithvi Raj V S and Mrdulla V Naarayan.

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
In association with  
IETE CHENNAI CENTRE

# MAKE-A-THON 4.0

*A 24 Hour Intercollegiate Hackathon*

**March 31 & April 1, 2023**

**REGISTRATIONS OPEN NOW !!**

**WIN CASH PRIZES UPTO 40K !!**

*BEST PERFORMERS WILL BE PROVIDED WITH INTERNSHIP OPPORTUNITY !!*

REGISTER @  
<https://make-a-thon-alpha.vercelapp/>



PRITHVI RAJ V S  
Secretary ECEA, 9789854546  
MRDULLA V NAARAYAN  
Honorary Secretary IETE, 8903870875

# ABOUT MAKE-A-THON 4.0

Make-a-Thon 4.0 was a 24-hour intercollegiate event that challenged students to offer innovative solutions in the form of prototypes and applications which will help address crucial real-time problems in our country and around the world. The event happened for 24 hours from 31st March 10 AM to 1st April 2023 10AM at the Multipurpose Hall, SVCE. The event witnessed an overwhelming response of a total of 32 teams. The developers had to build products that would impact and shape the future.

The event commenced with a prayer song by Ms.Pooja V and Ms.Aparna, 3rd Year ECE students, followed by a welcome address by Dr.T.J.Jeyaprabha, Associate Professor, Department of ECE. Ms.Mrdulla V Naarayan, IETE-SF Honorary Secretary, introduced the chief guests. Dr.D.Vijendra Babu, IETE Honorary Secretary- IETE Chennai Centre, addressed the gathering and spoke about the importance of participation in technical events and how practical implementation of skills are as equal as academic knowledge.





Mr.Vishnusai, pursuing his MS-Software Systems Development, Tufts University and an alumnus of ECE Department-SVCE, graced the event with his virtual presence. He spoke about his experiences in previous Make-a-Thon and how it will help the participants improve their technical skills. Dr.S.Muthukumar, HOD-ECE, SVCE, addressed the participants and appreciated the participants and organizers for the fervent efforts for the success of the event.



The problem statements for Make-a-Thon 4.0 were aligned with the emerging technologies in the field of engineering.

The domains are:

1. Smart Communication
2. Health care
3. Rural development
4. Smart vehicles
5. Smart homes
6. Food processing
7. Robotics
8. Cyber Security
9. IoT
10. Disease Awareness
11. Pandemic Safety
12. AI/ML/DL for human development



The Make-a-Thon 4.0 countdown of 24 hours began at 10.00 AM shortly after the inauguration.

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 30 teams pushed themselves into innovating new models and solutions for their problem statements. Food and refreshments were provided for the participants throughout the event.

ENVOI sponsored Make-a-Thon 4.0 by providing certificates for the winners and all the participants. InfoGrass and Best Match also provided monetary sponsoring of Rs.5000 each.



There were three rounds of judging. The first two rounds of judging were done by faculties of SVCE. The final round of judging was done by Dr.Aswin Seshadri, Deputy General Manager of Motherson Technology Services, Mr.M.Arun, Chairman of IEEE Madras and the alumni of SVCE.

## Judges for the 1st and 2nd Round of Make-a-Thon 4.0:

1. Dr. R. Gayathri, Professor/ECE
2. Dr. S. R. Malathi, Professor/ECE
3. Dr. D. Menaka, Associate Professor/ECE
4. Dr. S. Kumaravel, Associate Professor/EEE
5. Dr. T. Annamalai, Associate Professor/EEE
6. Ms. A. Indumathi, Associate Professor/INT
7. Mrs.C Gomatheeswari Preethika, Assistant Professor/ECE
8. Mrs.L Anju, Assistant Professor/ECE
9. Mrs.S Kalyani, Assistant Professor/ECE
10. Mr.L.K.Balaji Vignesh, Assistant Professor/ECE

## Judges of the final round of Make-a-thon 4.0 :

- 1.Dr.Aswin Seshadri, Deputy General Manager of Motherson Technology Services
- 2.Mr.M.Arun, Chairman of IEEE Madras
- 3.Mr.Premraj S, Data Engineer - Sirius Solutions
- 4.Mr.Keshav E, Software Engineer - MulticoreWare Inc
- 5.Mr.Pradeepan P, Software Engineer - Zoho Corp
- 6.Ms.Indhumathi Vijayarangan, Associate Software Engineer - Eurofins IT Solutions
- 7.Mr. Prashanna Rangan, PG Scholar - SVCE
- 8.Mr. Rahil Jain, Software Engineer - Tech Mahindra
- 9.Mr. Thanigaivel M, EAS -Oracle Peoplesoft
- 10.Mr. Rakesh Elamaran, Security Engineer 2 - Comcast
- 11.Mr.Vigneshwar, Senior Software Engineer, Professional Services- Inatech India Pvt. Ltd.
- 12.Mr.Sakthi Sailesh, Senior Software Engineer-R & D, Inatech India Pvt. Ltd.

The valedictory event of Make-a-Thon 4.0 commenced on 1st April 2023 at 12:30 PM. The chief guests were welcomed by Ms.Mrdulla.V.Naarayan, IETE Honorary Secretary. The results of Make-a-Thon 4.0 were announced. The winners were provided with cash prizes, internships and certificates.

The winners were awarded a cash prize of Rs.14000/- for first place, Rs.7000/- and Rs.5000/- each for second and third place respectively. Rs 2000/- for the budding Innovators and the Best feasible hardware respectively. Internship opportunities were provided by Dr.Aswin Seeshadri in Motherson Technology Services for the winners and 1st runner-up. A special mention was given to Team GT and internships were provided.

Mementos were provided to the chief guests and the alumni for gracing the event with their presence. Ms.S.Krishnapriya, RAIC President, delivered the vote of thanks. The event ended successfully with the National Anthem.





## WINNERS OF MAKE-A-THON 4.0

### 1ST PLACE

**Team name:** SMARTBLINK (SVCE)

**Problem statement:** Hardware-based innovative method to improve delivery and learning outcomes for specially-abled children



### 2ND PLACE

**Team name:** PEAKY BLINDERS (SVCE)

**Problem statement:** An AI Based mobile application to perform fund trail analysis of financial statements in pdf, CSV or any other relevant format





## WINNERS OF MAKE-A-THON 4.0

### 3RD PLACE

**Team name:** TATWAMASI (Sri Sairam Engineering College)

**Problem statement:** A mobile app for farmers, web platform/robotics/drone based IOT solutions for precision agriculture.



### BUDDING INNOVATORS

**Team name:** INNOMERS (Sri Sairam Engineering College)

**Problem statement:** A Smart Voice Assistant Based Hospital Companion With Medicine Dispenser



## WINNERS OF MAKE-A-THON 4.0

### MOST FEASIBLE HARDWARE

**Team name:** ROOKIE ADEPT (Sri Venkateswara College of Technology)

**Problem statement:** Mobile Medical Robot



### SPECIAL MENTION - INTERNSHIP OFFER

**Team name:** TEAM GT (SVCE)

**Problem statement:** An IoT-based technological solution based on live CCTV feeds, that can automatically detect incidents related to street crime, violence, burglary, theft, infiltration, unauthorized access, etc., and generate alerts to the nearest police station



## **CHIEF PATRON**

**DR.S GANESH VAIDYANATHAN  
PRINCIPAL**

## **CONVENOR**

**DR.S MUTHUKUMAR  
PROFESSOR & HOD, ECE**



## **COORDINATORS**

**DR.T.J.JEYAPRABHA, ASSOCIATE PROFESSOR, ECE**

**MR.S.ELANGO VAN , ASSISTANT PROFESSOR, ECE**

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