IEEE

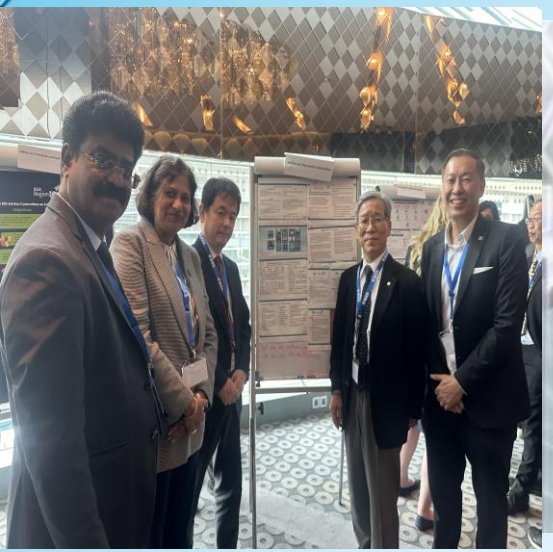
140

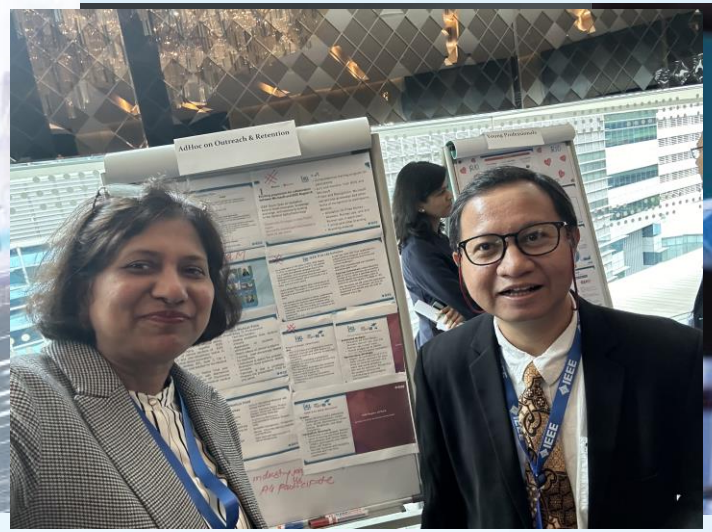
1884 - 2024

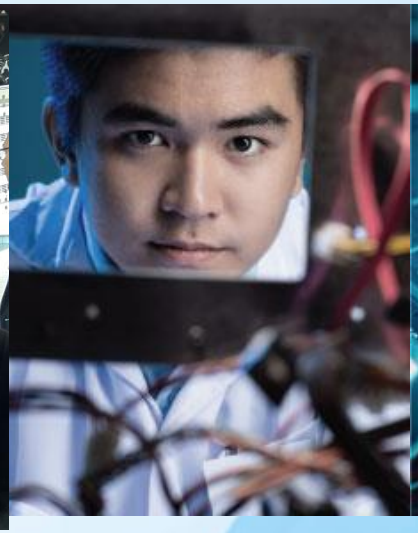
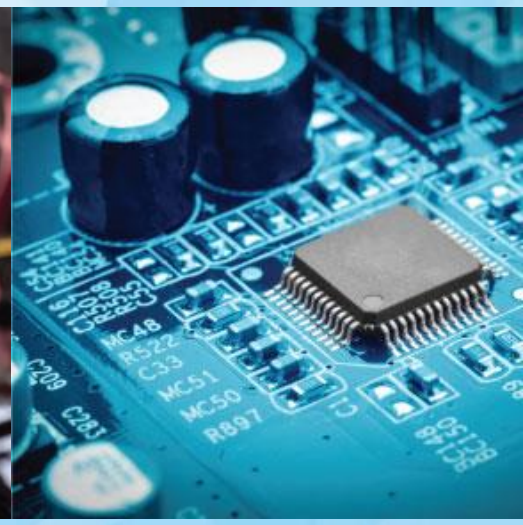
YEARS

Celebrating **140 Years** *of Advancing Technology for Humanity*

IEEE





2024 IEEE R10 Annual General Meeting

Date: 3rd March 2024

2024 R10 *AdHoc Committee on Outreach and Retention (ACOR)* Plan

Preeti Bajaj
Committee Chair

IEEE Advancing Technology for Humanity

2024 IEEE R10 Annual General Meeting

Lance Fung
Advisor
Western Australia

Preeti Bajaj
WIE & Chair -ACOR
Bombay Section

Abhinav Gambhir
YP, Memebr
Delhi

PORKUMARANKARANTHARAJ
Member
Maddras

Vamsi Krishna Jadala
Member,
Hyderabad

Aliza Aini Md Ralib
Member
Malaysia

Saaveethya Sivakumar,
Member
Malaysia

Bernard Lim
Member
Malaysia

Rajnish Sharma
Member,
Delhi

Rajashree Jain
Member
Pune

Muneesh Sabarwal
Member
Delhi

Yanpin Ren
Member
Beijing Section, P.R.China

Keiji Iramina
Member
Japan

CheonWon Choi
Member
Korea

21-Dec-21

IEEE
Advancing Technology for Humanity

2024 R10 ACOR Committee Plan

Committee Structure

1.Chair: Preeti Bajaj
2.Advisor: Prof Lance Fung
3.Members: Porkumaran Karantharaj, Vamsi Krishna Jadala, Barnard Lim, Muneesh Sabarwal, Rajneesh Sharma, Yanpin Ren, Keiji Iramina, CheonWon Choi, Saveethya Shivakumar, Aliza Aini Md Ralib , Rajashree Jain, Abhinav Gambhir

Objectives

To propose innovative regional programs
1. To encourage and Increase Retention of members (Students, YP…etc)
2. Increase Industry Engagement
3. Increase Outreach to the community

Projects / Tasks

Project 1:Survey amongst members for Outreach /benefits of IEEE
Project 2: IEEE Region 10 Hack
Project 3:Affordable Medical Device Development Hackathon
Project 4: Skilling Workshops with Industries
Project 5:R10-140

Budget

Project 1:Nil
Project 2:3200 USD (total project cost 6400 with matching grant)
Project 3:3500 (Total matching grant 7000 with matching Grant)
Project 4: NIL
Project 5:NiL
Total Proposed Budget in USD :6700

Project / Task Measurable

Project 1:Recommendations/ No of member categories participated
Project 2: No of OUs participated, no of non-ieee participated, no of industry personal involved
Project 3: No of Students , OUs, No of Non-IEEE Students participated, involved, No of Industries involved , No of solutions developed
Project 4: No of students trained and No of Students participated in Open AI Hackathon, no of industries came on board
Project 5: Portal development for R-140

Major Milestones & Timeline

Project 1:April 2024
Project 2 and 3 and 4 : Feb 2024 till Oct 2024
Project 5: June 2024

Details of Project 1
Survey amongst members for benefits of IEEE

Project In-charge : Prof Porkumaran Chair Madras Section
Aim : A Survey for each affinity group, Member category, section chair, to know key posts in the sections are filled or not , to know the outreach of the member benefits which shall help us to know the retention issues within Asia pacific

Time : March- April

Analysis: May

Tool Link:
https://docs.google.com/forms/d/163FtxmOrrPYCK9Qx3OwdNkhlooqF_QQriDT2IHxNJRY/edit?pli=1

Budget : Nil

Project 2: IEEE Region 10 Hack

Igniting Innovation Across Asia and the Pacific

Project Incharge: Vamsi Krishna

Aim

- IEEE R10 Hack is a collaborative venture between Councils and IEEE Region 10, positioning itself as a premier student-led hackathon.
- Focused on providing a prestigious platform for tech enthusiasts across Asia and the Pacific.
- The hackathon leverages the combined strength of Councils and the extensive reach of IEEE Region 10.
- A beacon for fostering innovation, collaboration, and achieving technical excellence.

IEEE R10 Hack Structure

- **Tracks:**
  - Seven diverse tracks addressing challenges in Education, Health Care, AR/VR, Environment, Green Energy, Blockchain, and Open Innovation.
- **Hackathon Structure:**
  - Conducted in two phases: Section-Level Screening and Final Round.
  - Encompasses both Online Mode (3000+ participants) and Offline Mode (50 Teams).
  - Two-day duration with engaging activities and real-time collaboration.

IEEE Region 10 Hack

Igniting Innovation Across Asia and the Pacific

R10 Hack Budget and Sponsorship Strategy

- **Estimated Budget:**
  - Allocation for Prize Money - Winners, Runner-ups, and 2nd Runner-ups in each track.
  - Overall budget set at $8000-$10,000 for the entire hackathon.
- **Sponsorship Strategy:**
  - Region 10 contribution of $3200.
  - Seek industry sponsors for each track to enhance outreach and solve real-world problems.
  - Win-win for sponsors: Recognition for problem-solving and contributing to technological advancement.

IEEE Region 10 Hack

Igniting Innovation Across Asia and the Pacific

Project 3
Project Incharges: Barnad Lim, Preeti Bajaj

Aim

- IEEE R10 MEDIC 2024 is Medical device hackathon bringing together students of various sections of IEEE Region 10 and inter-disciplinary teams to explore medical device innovation.
- Trying to develop BTL level ¾ prototype of low cost solution for the medical problems.
- 2 piolet Malaysia during HTC and Japan
- The hackathon leverages networking, team building, solutions to the complex problems and bringing mechanical engineers, design engineers and medical practitioners at same platform
- A beacon for fostering innovation, collaboration, and achieving technical excellence.

Project 3 :IEEE Region 10 Medical Devices Innovation CHALLENGE

Igniting Innovation Across Asia and the Pacific

Problem statement : Live from Medical Field

Hackathon Structure:

- Section-Level Screening and Final Round.
- Offline Mode (10-12 Teams each with mechanical engineer, design engineer, YP, Electronics/ Computer engineer and biomedical/ medical student and one SM as Mentor

- Final year UG/PG students
- Medical: Biomedical/ Medicine with biology background
- Design: Industrial Design/ Product Design/ Visual Arts/ Mechanical/ Manufacturing/ Materials/
- Engineering-Electronics/ Instrumentation/ Software Student /WIE
- Business/ management : YP Member
- Mentor : One of the SM from Industry must be Mentor
- Each team will have one each of above backgrounds.

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Hackathon Structure:

1. Two-day duration
2. Getting problems from doctors/ industry
3. Preparation of curated video
4. Application of students / participants
5. Watch videos of clinical problems.
6. Choice from participants
7. Forming inter-disciplinary teams by organisers
8. Understand & define the problem. Brainstorm novel solutions, sketch concepts.
9. Fabricate & test a prototype. Prepare the presentation. Pitch to jury panel.

4 stages are

- Team Building
- Problem Definition Concept
- Prototyping
- Pitch to jury

Problem statement : Live from Medical Field

- **Estimated Budget:**
  - 1750 USD for Tinkering lab/ makers space and consumable for 10 -12 teams and local logistics
  - Overall budget set at $7000 for the entire hackathon.
- **Sponsorship Strategy:**
  - Region 10 contribution of $3500.
  - Seek Section/ OU to enhance outreach to sponsor equally
  - Prizes: Certificates and membership of one society
  - Connectivity with Venture capitalist, internship opportunities, incubation support

- Consumable 1000 USD
- Stationary 500 USD
- Prizes 2000 USD
- certificate 100 USD
- Registration kits -1000 USD
- Video making
- Jury members honorarium and travel 3000 USD
- Students 2 lunch, 1 dinner, 1 breakfast and one hi tea
- Misc.
- Availability of presentation room, lab for 50-100 students

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Problem statement : Live from Medical Field

Requirement

- Industry
- Doctors for jury
- Fab lab/ tinkering lab as venue
- 36 hours competition in the lab/ campus
- Mentors
- YP, WIE, SM, Students members and biomedical student in each group/ medical
- Consumables

The outcomes

- Patents
- Innovations
- Start-ups
- Prototypes
- Interdisciplinary applications for humanity
- Papers
- Internships

Calf Tightness in Childrens

Calf tightness in children can have various causes, such as growth spurts, muscle imbalances, and neurological conditions.

Microsoft

IEEE
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OpenAI | IEEE region 10 | Microsoft

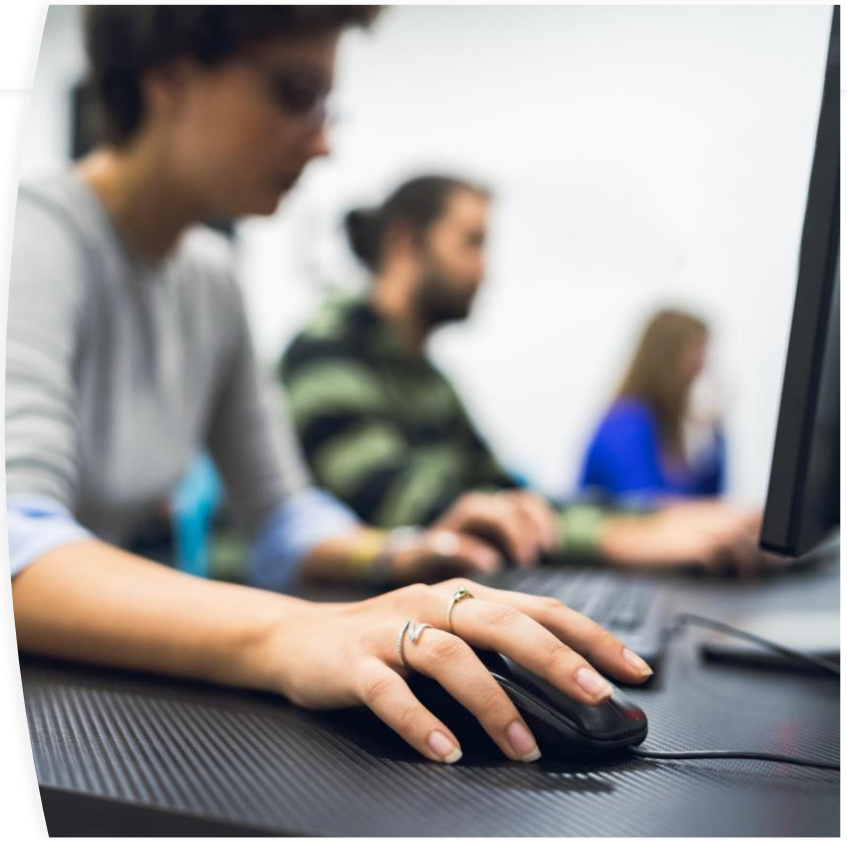
Project 4
IEEE Azure Open AI Hackathon
Project Incharges: Preeti Bajaj and Abhinav Gambhir

IEEE

Exciting proposition for collaboration between Microsoft and IEEE Region10

IEEE Azure Open AI Hackathon
Aims to foster innovation, knowledge exchange, and community building
In the dynamic field of technology

Opportunity for impact in Asia-Pacific region
Microsoft's involvement instrumental in Open AI use cases



Aim

- IEEE Azure Open AI Hackathon with IEEE Region 10, is a collaborative venture between IEEE IEEE Region 10, and Microsoft positioning itself as a premier student-led hackathon.
- Focused on providing a prestigious platform for tech enthusiasts across Asia and the Pacific.
- The hackathon leverages the combined strength of Microsoft and the extensive reach of IEEE Region 10.
- A beacon for fostering innovation, collaboration, and achieving technical excellence.

- **Tracks:**
  Addressing challenges in Open Innovation…
- **Hackathon Structure:**
  Conducted in two phases: Section-Level Screening and Final Round.
  Encompasses both Online Mode 10000+ participants) and Offline Mode (50 Teams) for 2 days

- Open AI Hackathon utilizing Azure as primary cloud platform
- Comprehensive training program for participants
- Used cases as challenges
- Jury and mentors from IEEE and Microsoft
- Two-level competition structure (level 2 can be in Microsoft office of relevant country or in India office)

Massive Exposure

IEEE Region 10 students across 28 countries and 60 plus sections

Largest Hackathon: The IEEE Azure Open AI Hackathon can become one of the largest hackathons

Success Metrics: Success will be measured by the scale of the hackathon and the success of the training programs and boot camps

Prizes and Recognition: Microsoft can provide giveaways and other forms of recognition to participants, Mentors

- Allocation for Prize Money - Winners, Runner-ups, and 2nd Runner-ups in each track.
- T shirts and other branding
- Branding material

Branding shall be with IEEE and as per agreement

Can be a regular feature to attract good students

Project 5:R10-140

Lance Fung, Vijay Paul, Preeti Bajaj, Leo

- **R-140 (The "R10 140" Web Application is a unique platform designed to promote volunteerism through physical fitness and various challenges)**
- Both IEEE members and non-members should be able to join.
- **Exercise Commitment**: Users should be able to commit to exercise up to a certain number of Km within a specified period. It should appeal and encourages users to commit to exercise goals in multiple of 140.

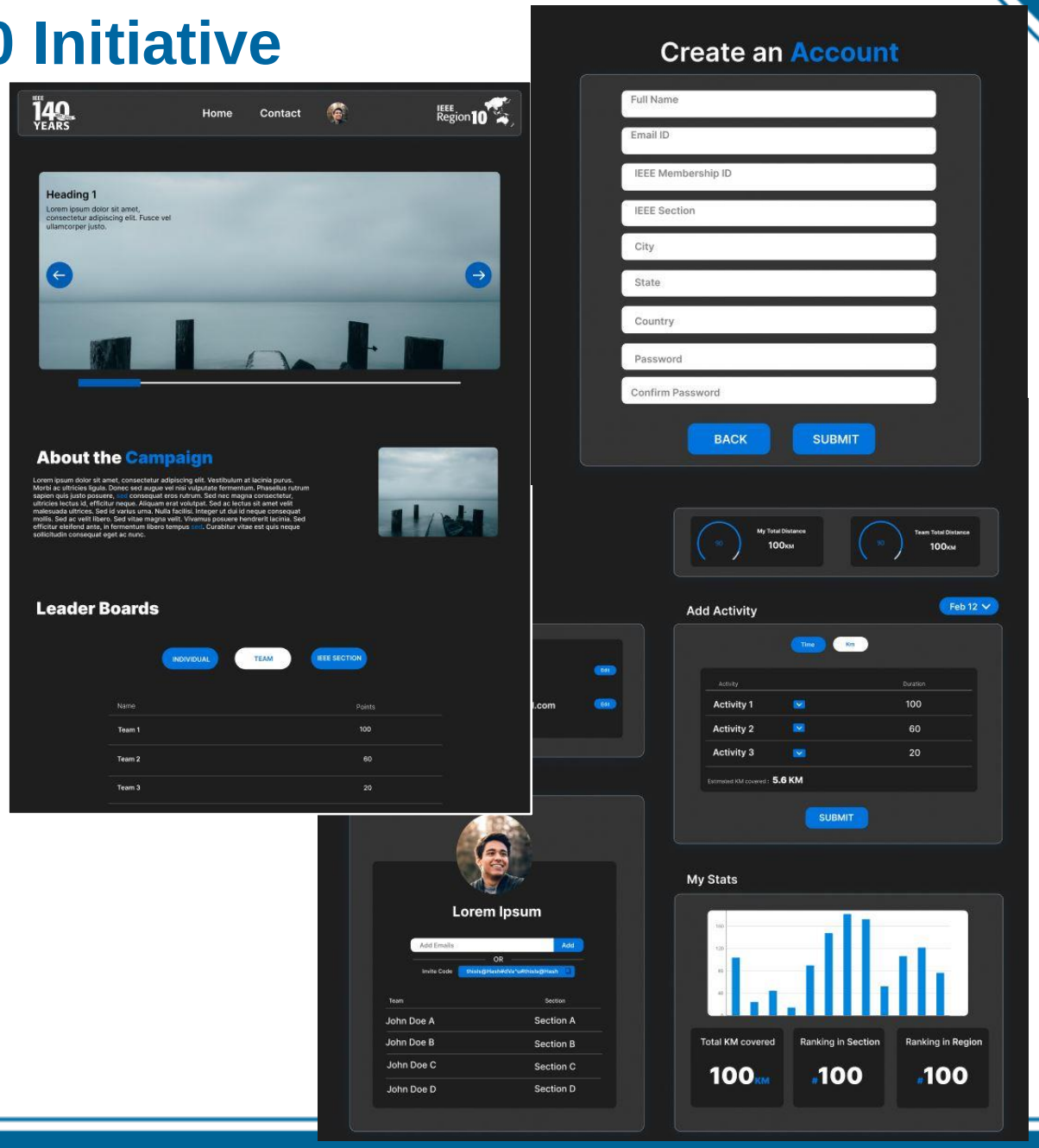
- After the event, we will inform the participants to download the "e-certificate", pin shall be dispatched and website pop ups shall be displayed every day.

IEEE R10-140 Initiative

- As a celebration of 140 years of IEEE, IEEE Region 10 (R10) is planning to launch the R10-140 website. It is a health and wellness campaign that involves IEEE members, volunteers and general public walking/running/swimming/exercising the equivalent of 140km (or its multiples), either individually or as a team, over a 6-month period.

- Users will be able to register either individually or as part of a team. The target of 140km (or its multiples) will have to be achieved either individually or as a team.

- The website will be dynamic in nature. Leaderboards will be based on maximum kilometres covered by individual/team, with 140 and its multiples being milestones. This will then enable us to represent top individuals, top teams and top IEEE Sections, on the leaderboard.
- Website *(once live)*: 140.ieeer10.org



Thank You