PEA
IEEE REGION8
PROFESSIONAL AND
EDUCATIONAL ACTIVITIES
PRE-UNIVERSITY . UNIVERSITY . CONTINUING ED.
ALPHA ENGINEERS CONTEST
IEEE REGION 8
IEEE region8
ENTREPRENEURSHIP
WEEK
ACCELERATION PROGRAM
IEEE REGION 8
SPEAKERS
IEEE region 8
www.facebook.com/ieeeR8PEA

PEA
IEEE REGION8
PROFESSIONAL AND EDUCATIONAL ACTIVITIES

Professional and Educational Activities subCommittee

Region 8 mini series meetings spring 2021

IEEE Region 8

IEEE
Advancing Technology for Humanity

R8 Professional and Educational Activities

Summary

Chair Introduction, by Conrad Attard (3 min)

Part I (35 min)

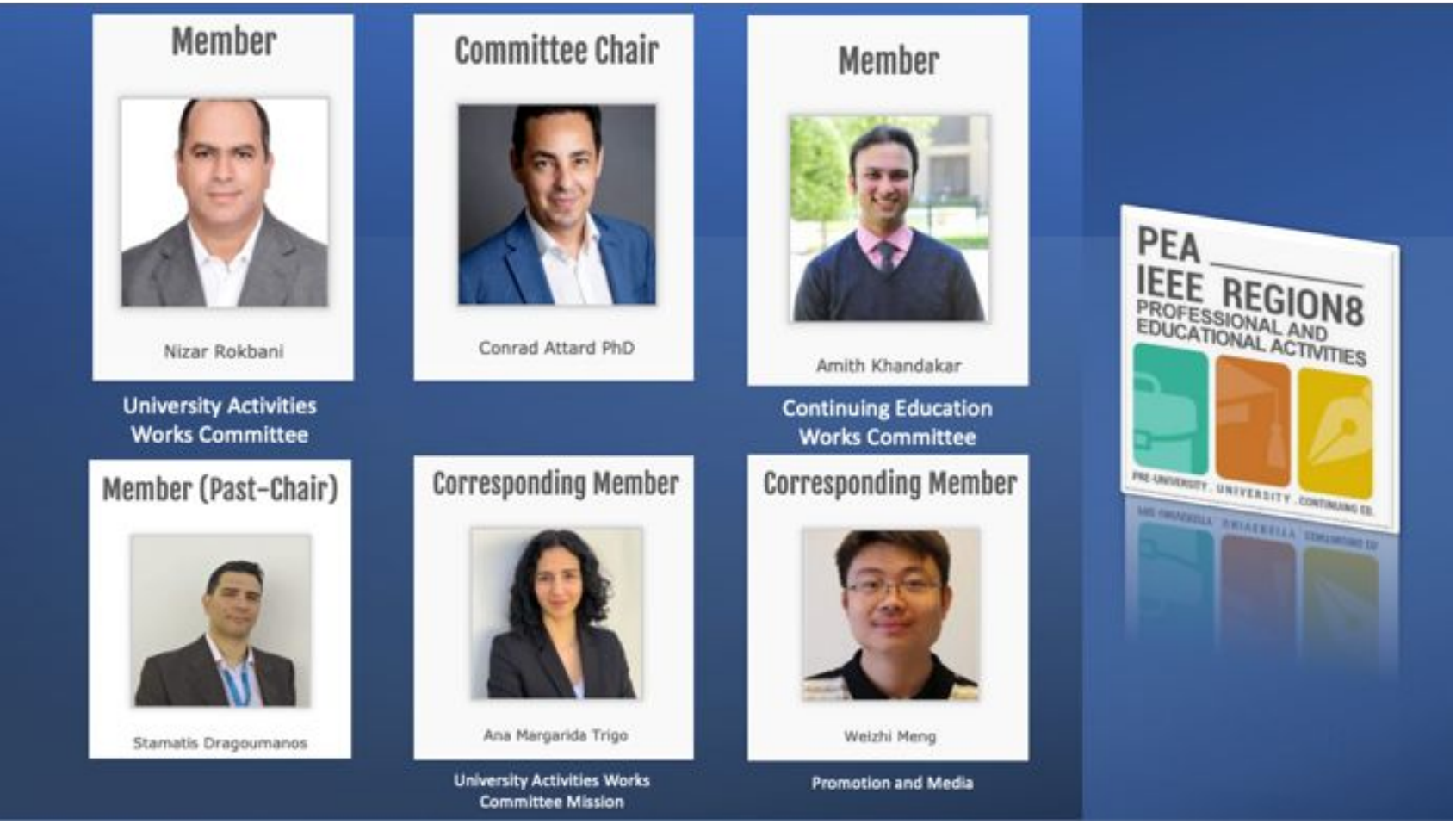
- New project: IEEE Continuing Education for Engineering Professionals in Africa **Vincent Kaabunga & Bruce Krogh**
- EAB Programs and Awards **Sohiab Qamer**
- IEEE Study Circle Program Pilot **A. Margarida Trigo**
- IEEE R8 Robot Wars Championship **Conrad Attard**
- STEM portal **Lorena Garcia**

Part II (10 min)

- Pre-university working committee, **A. Margarida Trigo**
- University working committee, **Nizar Rokbani**
- Continues education working committee, **Amith Khandakar**

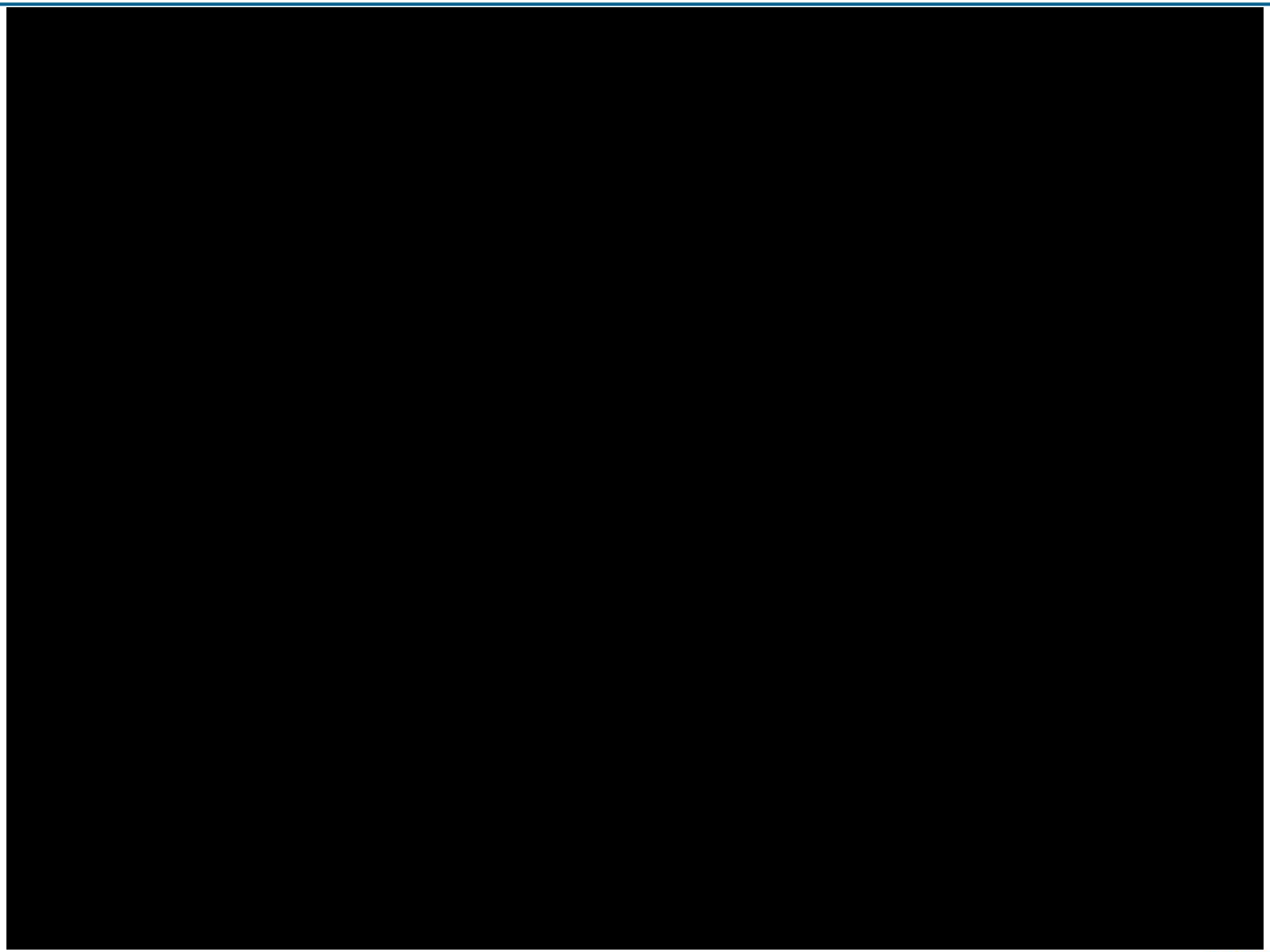
Engage with us: https://tinyurl.com/PEASC2021

R8 Professional and Educational Activities



Projects and Programs PEASC

www.facebook.com/ieeeR8PEA



https://tinyurl.com/PEASC2021

R8 Professional and Educational Activities

Introduction

- We have established 11 objectives that cover different aspects of Professional and Education Activities.
- New committee formed
- 5 new programs focusing on practical impact of PEASC
- Construction of Arena for **IEEE Region 8 Robot Wars Championship in Malta.**
- Updating existing programs to reach out to more Sections
- Launched the Speakers Program *Call for Speaker* – nontechnical talks
- Pilot the local languages program - technical webinars in French and Arabic
- Collaborating with YP as member of the international evaluation committee IEEE Region 8 Entrepreneurship Initiative

R8 Professional and Educational Activities

2020 Education Activities Globally

- Record year for continuing education revenue $1.34M
- IEEE Academies on Artificial Intelligence and Internet of Things and Smart Grid
- IEEE learning Network now has over 1000 course accessible form 29 partners from across IEEE
- COVID response to support our Members: 55 virtual events with over 41,000 registrations

R8 Professional and Educational Activities

Part I

- New project: IEEE Continuing Education for Engineering Professionals in Africa **Vincent Kaabunga & Bruce Krogh**
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5 Topics 5 Minutes 5 Slides

IEEE CONTINUING EDUCATION FOR ENGINEERING PROFESSIONALS IN AFRICA

IEEE Region 8 Online Meeting Series.

IEEE R8 PEASC

http://pea.ieeer8.org/

SPEAKER

BRUCE KROGH

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5 Topics 5 Minutes 5 Slides

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http://pea.ieeer8.org/

SPEAKER

VINCENT KAABUNGA

PEA IEEE REGION8 PROFESSIONAL AND EDUCATIONAL ACTIVITIES

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IEEE Region 8

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IEEE Continuing Education for Engineering Professionals in Africa

IEEE Region 8 PEASC
March 19, 2021

Initiative Leaders

Vincent Kaabunga
Chair, IEEE Africa Council

Bruce Krogh
IEEE Life Fellow

IEEE
Advancing Technology for Humanity

IEEE Continuing Education for Engineering Professionals in Africa Feasibility and Planning Study

IEEE NIC Project – 2021-2023 (renewable annually)

Vision: Develop IEEE continuing education resources **relevant to the needs of practicing engineers and their employers in Africa.**

Goals

- Make delivery **accessible, affordable and effective**
- Satisfy **professional engineering CEU requirements**
- Engage **Africa-based content developers & mentors**
- Develop **local IEEE Section support and ownership**
- Create partnerships for **sustainability**

Target Countries

- Year 1: Kenya, Zambia
- Year 2: Uganda, Rwanda, Ghana
- Year 3: Nigeria

Approach: Leverage existing IEEE resources

IEEE LearningNetwork™

- E-learning platform with hundreds existing technical and professional courses
- Supports custom access and course programs for industry partners
- Extensible with new courses to be developed for this project

IEEE Collabratec

ieee-collabratec.ieee.org

- Collaboration platform supporting information exchange for focused interest groups
- Workspaces for topic-specific student discussion and collaboration
- Communities for course-specific mentor support

IEEE

Year 1 (2021):
Pilot projects in Kenya and Zambia

2019 Nairobi and Lusaka Stakeholder Meetings

Objective: Offer a few existing ILN courses to get feedback from stakeholders to guide future development and prepare for certification with the National Engineering Boards

Phase 1

- Create access to current ILN course programs in power systems and telecommunications
- Hire on the ground consultant to work on the project within Africa (likely based in Kenya)
- Engage key employers to offer courses the courses for free to their employees
- Collect and assess feedback from engineers and employers

Phase 2 (based on feedback from Phase 1)

- Engage and prepare mentors for selected courses for a more focused pilot program
- Engage employers with specific interest in the mentor-supported courses
- Collect feedback and develop plans for Year 2

Region 8 Engagement

How can you help?

- Support engagement with the **local sections and chapters**
- Leverage your networks for **industry partners**
- Recruit IEEE volunteers to serve as **mentors**
- Publicize the project to raise awareness of **IEEE's activities in Africa**

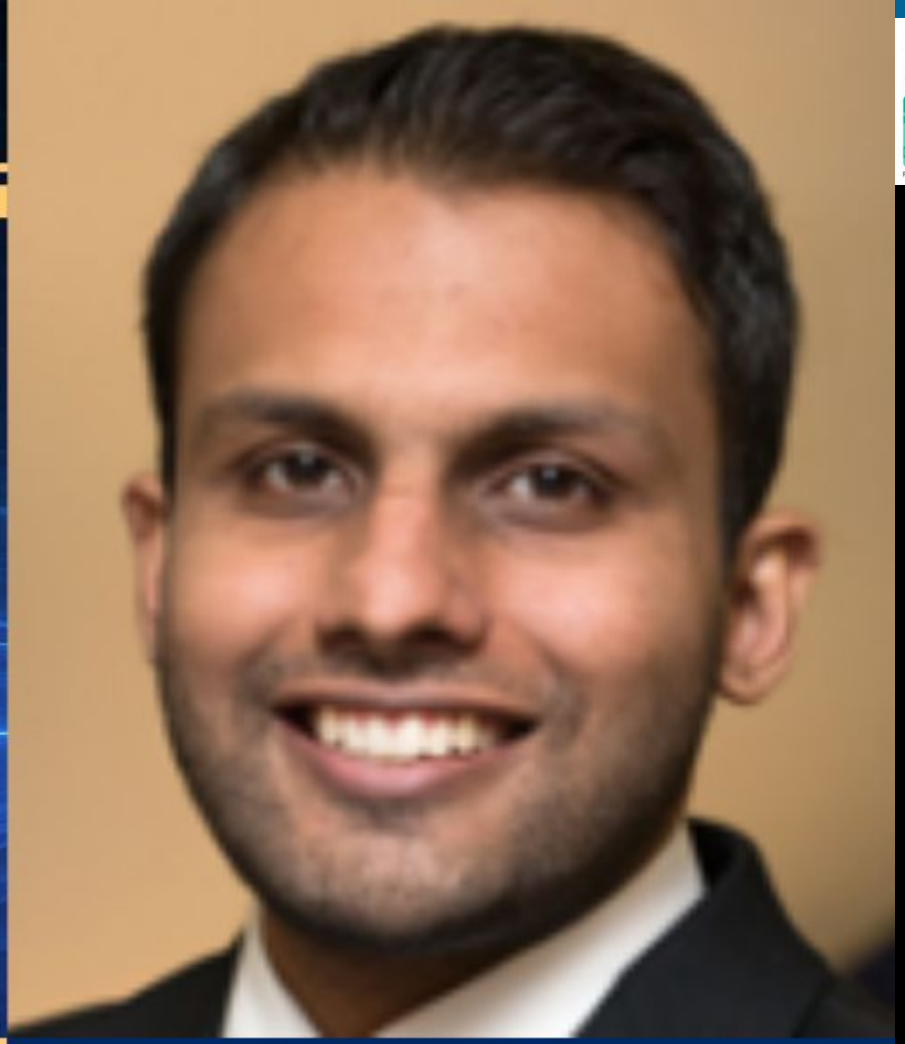
5 Topics 5 Minutes 5 Slides

EAB PROGRAMS AND AWARDS

IEEE Region 8 Online Meeting Series.

IEEE R8 PEASC

http://pea.ieeer8.org/



SPEAKER

SOHIAB QAMER

PEA IEEE REGION8 PROFESSIONAL AND EDUCATIONAL ACTIVITIES

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IEEE Region 8

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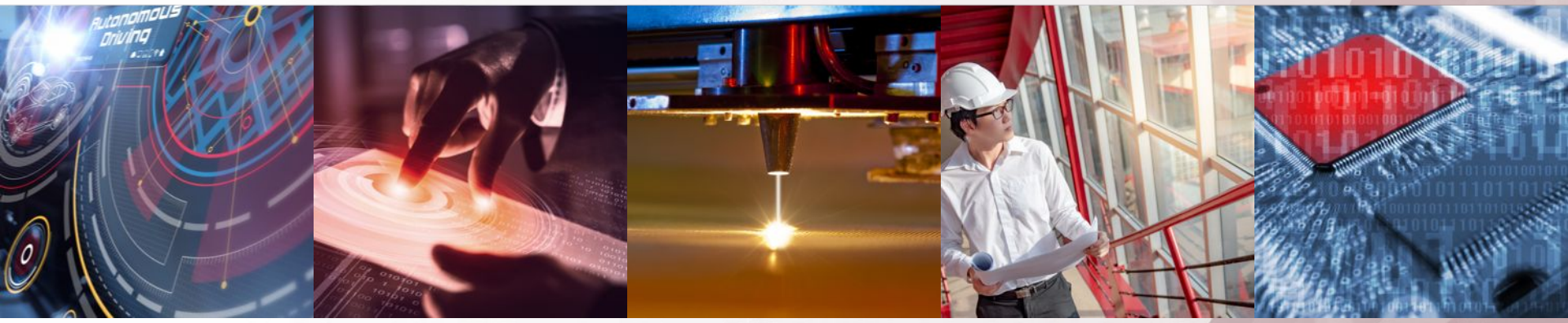

IEEE Region 8 Meeting - PEASC

EAB Programs and Awards

18 Mar 2021

Sohaib Qamar Sheikh

Member, IEEE Educational Activities Board

IEEE
Advancing Technology for Humanity

IEEE Educational Activities Programs

Pre-university

Powered by IEEE TRY Engineering.org

TryEngineering Powered by IEEE and In2Books TOGETHER

TRY Engineering STEM Portal

President's Scholarship

IEEE Foundation Donor Supported Program

Powered by IEEE TRY Engineering Summer Institute

IEEE Foundation Donor Supported Program

University

IEEE Teaching Excellence HUB

ABET

HKN

IEEE Foundation Donor Supported Program

EPICS IN IEEE Engineering Projects In Community Service

IEEE Foundation Donor Supported Program

Continuing Education

IEEE LearningNetwork

IEEE eLearning LIBRARY

And EAB Awards!

IEEE

University Collaboration Opportunity

EPICS IN IEEE
Engineering Projects In Community Service

Service Learning Opportunity: Gives students engineering experience, while developing devices and systems to aid communities around the world

Student Value:

- Develop project management, technical, teamwork, and leadership skills
- Receive mentoring from engineering professionals
- Make a sustainable impact on a community level

By Submitting a Project to EPICS IEEE Volunteers:

- Lead students in hands-on projects
- Improve STEM education in local schools

IEEE Foundation Donor Supported Program

EPICS.ieee.org

Interested? Contact Ray Alcantara in Educational Activities at r.alcantara@ieee.org

IEEE Proprietary

University Collaboration Opportunity

IEEE-Eta Kappa Nu (IEEE-HKN)

The international honor society in the IEEE fields of interest, recognizing technical excellence, community service, exemplary character, a positive attitude, and leadership.

- IEEE-HKN members add value to the community through community service projects.
- IEEE-HKN members are sought out by employers and chapters have a close relationship with local companies.

IEEE Foundation Donor Supported Program

Over 45,000 Hours of Community Service in 2020!

IEEE-Eta Kappa Nu

Interested? Contact IEEE-HKN at info@hkn.org

Adding Value to IEEE Members

Credentials: Certificates and Digital Badging

IEEE

CERTIFICATE OF COMPLETION

This is to certify that

Tahiya Choudhury

has completed

Dynamic Reactive Power Technology

18 November 2019
Piscataway, NJ, USA
0.5 Continuing Education Units; 5 Professional Development Hours

CEU

EA is charged by the IEEE to administer and manage all CEUs.

Certificates are offered for successful completion of learning events (courses, webinars, workshops, tutorials, etc.) sponsored by any IEEE Unit.

Types of certificates include:

- Continuing Education Unit (CEU)
- Professional Development Hour (PDH)
- Certificate of Completion (CoP)

Learn how your OU can offer IEEE Certificates & Badges by visiting **ieee.org/education**

Interested? Contact Tahiya Choudhury in Educational Activities at t.choudhury@ieee.org

EA Awards and Recognitions

EAB Awards

- Meritorious Achievement in **Accreditation Activities**
- Meritorious Achievement in **Continuing Education**
- Meritorious Achievement in **Outreach and Informal Education**
- Meritorious Achievement Award in **Pre-University Education**
- Major **Education Innovation**
- **Meritorious Service** to IEEE EAB
- Educational Activities Board (EAB) / Standards Association (SA) Board of Governors **Standards Education Award**
- **Employer** Professional Development
- **Section** Professional Development
- **Society/Council** Professional Development

EAB Scholarship and Fellowship

- IEEE Life Members Graduate Study **Fellowship** in Electrical Engineering
- The Charles LeGeyt Fortescue **Scholarship**

HKN Awards (administered by HKN ARC)

- Outstanding **Chapter** Award
- Alton B. Zerby and Carl T. Koerner Outstanding **Student** Award
- Outstanding **Young Professional** Award
- C. Holmes MacDonald Outstanding **Teaching** Award
- **Eminent Member** Recognition
- **Distinguished Service** Award
- Asad M. Madni Outstanding **Technical Achievement and Excellence** Award

2021 Awards Cycle

Nominations, judging, celebration

- Nominations Accepted **15 Feb – 3 May 2021**
- Evaluation Period May – Jun 2021
- Award Winner Selection During June Board
- Awardee Announcement Jul-Aug 2021
- Awards Ceremony During November Board Series or Virtual Award Experience

Join the Conversation

Facebook
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@IEEE.continuing.education

Twitter
@IEEEducation
@IEEELearn

LinkedIn
@ieee-educational-activities

For questions or comments,
email Educational Activities at **edu-activities@ieee.org**
http://ieee.org/education

IEEE

5 Topics 5 Minutes 5 Slides

IEEE STUDY CIRCLE PROGRAM PILOT

IEEE Region 8 Online Meeting Series.

IEEE R8 PEASC

http://pea.ieeer8.org/

SPEAKER

A. MARGARIDA TRIGO

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PROFESSIONAL AND EDUCATIONAL ACTIVITIES

https://tinyurl.com/r8meetingPEASC

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IEEE Online Study Circles

New Initiative

Catarina Reis

Chair Portugal Blockchain WG

A. Margarida Trigo

WiE Corresponding member PEAsC

BLOCKCHAIN
Portugal Working Group
IEEE Blockchain Initiative

IEEE Online Study Circles

Introduction

- This initiative intends to facilitate continuous learning using a self-managed, self-paced approach where the moto is learning by sharing
  - Curiosity: this initiative is based on study circles embraced by Sweden more than 1 century ago to solve poverty and illiteracy problems
- Ground Structure:
  - 7-12 members per circle with a common interest to learn, discuss and grow together
  - Facilitator role instead of Teacher role
  - Facilitator is one group member who engages members into the discussion, being responsible for the session to be inside the defined scope and goals
  - Agile learning with cooperation and collaboration

IEEE Online Study Circles - Proof of Concept

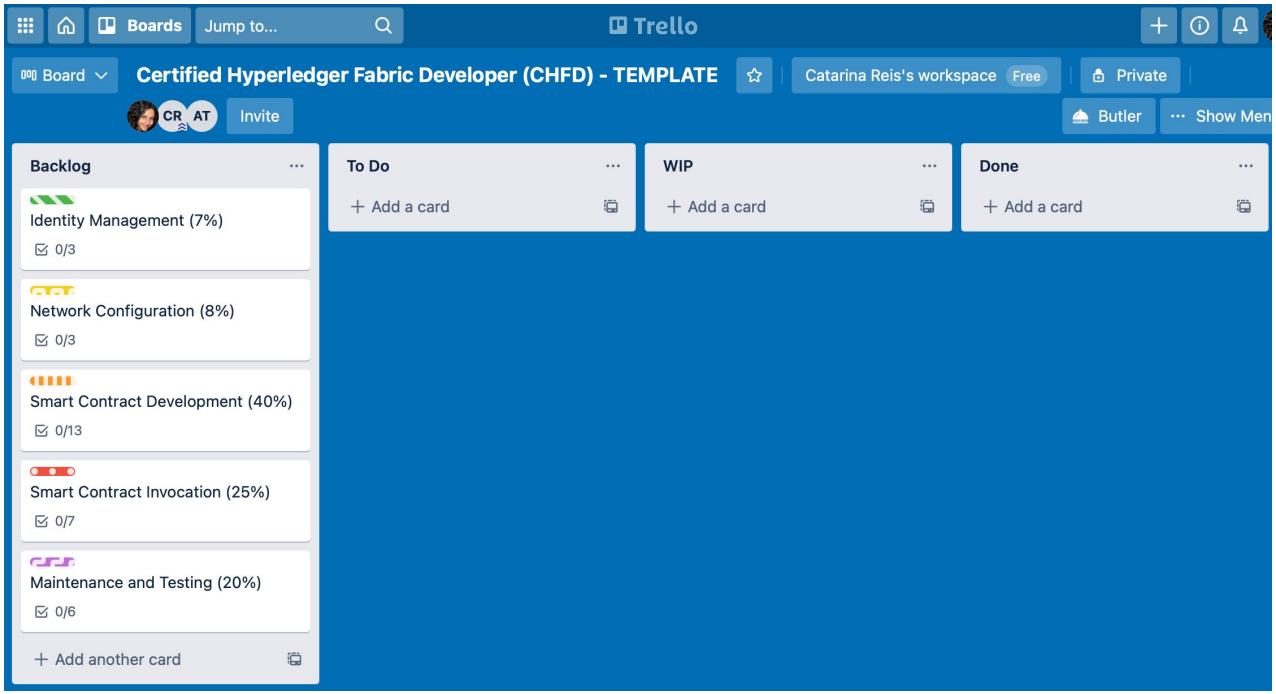
Hyperledger Fabric Developer - Certification Training (CHFD)

- To evaluate the potential of this initiative it will be started a Proof of Concept (PoC) in April
  - IEEE Study Circle: “Hyperledger Fabric Developer - Certification Training (CHFD)”

IEEE Online Study Circles - Proof of Concept

Hyperledger Fabric Developer - Certification Training (CHFD)

- The PoC will help to mold the resources to be used in future IEEE study circles:
  - Facilitator Handbook;
  - Circle Study Handbook;
  - The PoC will use the ScrumBan Based Learning approach



IEEE Online Study Circles - Proof of Concept

How to be part of Learning Circles PoC

- IEEE Online Study Circles - **Proof of Concept** - Hyperledger Fabric Developer - Certification Training (CHFD) to start in April
- **Pre-requisites of PoC:**
  - Developers with knowledge in Node.js (required by certification platform)

Interested in being part of this Study Circle PoC?

Please Contact:

R8 PEAsC or blockchain@ieee-pt.org

5 Topics 5 Minutes 5 Slides

IEEE R8 ROBOT WARS CHAMPIONSHIP

IEEE Region 8 Online Meeting Series.

IEEE R8 PEASC

http://pea.ieeer8.org/

SPEAKER

CONRAD ATTARD

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https://tinyurl.com/r8meetingPEASC

IEEE Region 8

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IEEE Region 8
IEEE R8 ROBOT WARS
CHAMPIONSHIP 2022 MALTA
IEEE R8 ROBOT WARS

IEEE r8 Robot Wars Championship 2022 Malta

Objective:

- Promote STEM among IEEE members and pre university.
- Establish an opportunity for industry partners to engage with IEEE by supporting various teams when building the robot.
- Promote the IEEE brand among different student organisations at various universities.
- Create the first R8 flagship Education event.
- Grow IEEE membership with students offering more motivation for members to join their local IEEE Student branch.
- Engage with both student and industry.
- Encourage problem solving, creativity, teamwork and collaboration.

IEEE r8 Robot Wars Championship 2022 Malta

Methodology

Reach out to different student branches in our Region

Update the rules and regulations of Robot wars

Issue a call and organize online information sessions

Construction of Arena

Review applications

Organise Webinars – Workshops on how to build Robots for robot wars, entrepreneurship skills needed to fund the robot and STEM communication.

STEM outreach to schools.

Championship in Malta

5 Topics 5 Minutes 5 Slides

IEEE STEM PORTAL

IEEE Region 8 Online Meeting Series.

IEEE R8 PEASC

http://pea.ieeer8.org/

SPEAKER

LORENA GARCIA

https://tinyurl.com/r8meetingPEASC

Powered by IEEE TRY Engineering™

STEM Portal

PreUniversity STEM Outreach Programs

Lorena Garcia

IEEE EA PreUniversity Education Coordinating Committee Chair

IEEE

IEEE Pre-University Educatio

Youth see themselves as someone who can improve the world through STEM careers!

SHARE

Create and provide opportunities and resources for Volunteers, Educators, and Students

GIVE BACK

Volunteers engage in STEM outreach, assisting educators in bringing STEM into their classrooms and helping students explore STEM careers

INSPIRE

Encourage students to aspire to Engineering and Technology careers

How We

Student Worksh ops

Competit ions

Teacher Worksh ops

STEM Resour ces

Powered by IEEE TRYEngineering™ | STEM Portal

IEEE

TryEngineering Brand

Powered by IEEE TRYEngineering Summer Institute

Two-week summer college experiences for 8th to 12th grade students to introduce them to engineering and technology

Powered by IEEE TRYEngineering.org

A pre-university engineering education portal for educators, students and IEEE volunteers

TryEngineering TOGETHER

A teacher-guided online learning platform that matches 3rd to 5th graders with mentors from industry

Powered by IEEE TRYEngineering | STEM Portal

IEEE

Powered by IEEE
TRY Engineering.org

- Launched in 2006 as a pre-university engineering education web portal
  - Resources for educators to assist them in bringing engineering and technology into their classrooms
  - Provides students with resources to prepare them for STEM Careers

- Resources include: Lesson Plans, STEM Fields, Meet an Engineer, Games, Find a University, Virtual Learning

Powered by IEEE TRY Engineering™ | STEM Portal

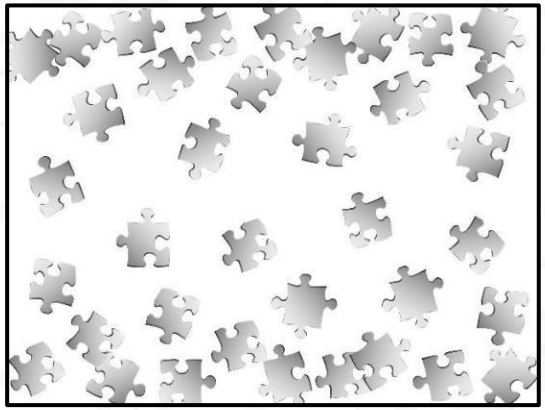
IEEE

The Challenge for IEEE's STEM Pre-University Education Programs: A Fragmented Landscape

There are many volunteer-led pre-university STEM activities happening globally, but…

We do not know collectively what is being done across the institution. There is no:

- Place for volunteers to **SHARE** and showcase their effective programs with each other
- Set of STEM education **RESOURCES** from IEEE that volunteers can draw from when developing local STEM programs
- **IMPACT DATA** of our collective IEEE STEM efforts



IEEE Volunteer STEM Portal: Share. Give Back. Inspire

Features

- **Searchable library** of current STEM and pre-university programs *(developed by IEEE's global communities and Partners)*
- **Resources** to support current or new STEM programs
- **Metrics and Impact** mechanism
- **Awards and Recognition** program
- **Development** grants (coming soon)

Volunteer Engagement

- **Ability** to share your programs
- **Find** a program to host/organize
- **Learn** best practices
- **Make** STEM connections
- **Build** a Local STEM community
- **Impact** as many students as possible

Powered by IEEE TRYEngineering™ | STEM Portal

IEEE

STEM Outreach Programs

Camp

Competition/ STEM fairs

Girls in STEM

Mentoring

Student Workshop

Teacher Workshop

Industry/Company Tour

Career Day

Parent Program

The Envisioned Future

IEEE's Global Communities: Engaged in Pre-University STEM Activities

Mobilizing the global reach of IEEE to ***impact as many students as possible*** with **hundreds of STEM activities** offered each year!

Powered by IEEE TRYEngineering™ | STEM Portal

IEEE

Join Our STEM Team

Volunteer STEM Portal

- Share your great programs
- Pa[illegible] the pi[illegible]

Join our IEEE Pre-University Collabratec Community and TryEngineering Facebook Group

IEEE Collabratec

IEEE TryEngineering Community

FOR MORE INFORMATION CONTACT:

Lorena Garcia lorenagarcia@ieee.org, Burt Dicht b.dicht@ieee.org, Dawna Schultz d.j.schultz@ieee.org

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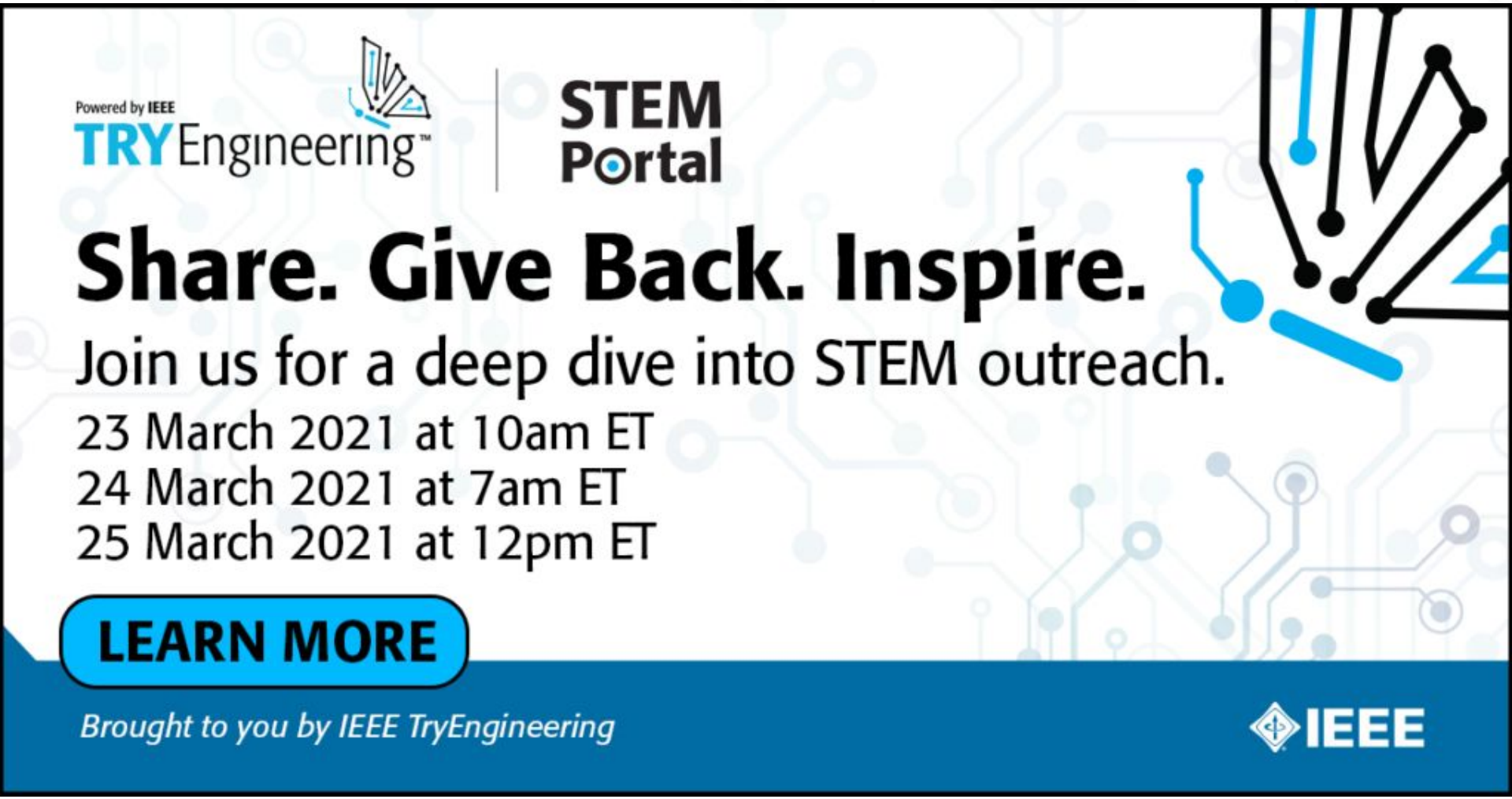
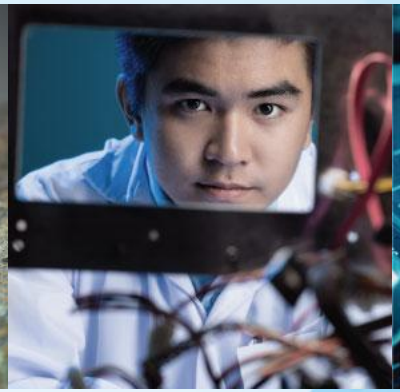
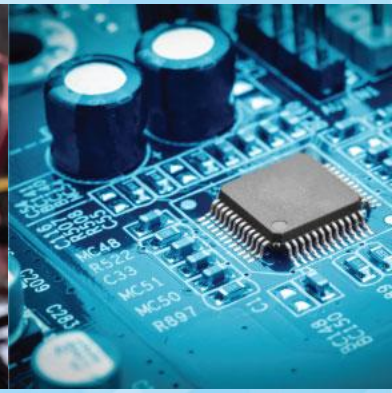


Register now at
https://tryengineering.org/news/ieee-pre-university-volunteer-stem-portal-deep-dive-events-share-give-back-inspir

R8 Professional and Educational Activities

Part II

- Pre-university working committee, Ana
- University working committee and Nizar
- Continues education working committee, Amith

Pre-University Education WG

Presented by:

Ana Trigo PEAsC corresponding member

WiE member

IEEE Graduate Student Member, Portugal Section

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PRE-UNIVERSITY ACTIVITIES WORKS COMMITTEE

IEEE Region 8 Online Meeting Series.

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SPEAKER

A. MARGARIDA TRIGO

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https://tinyurl.com/r8meetingPEASC

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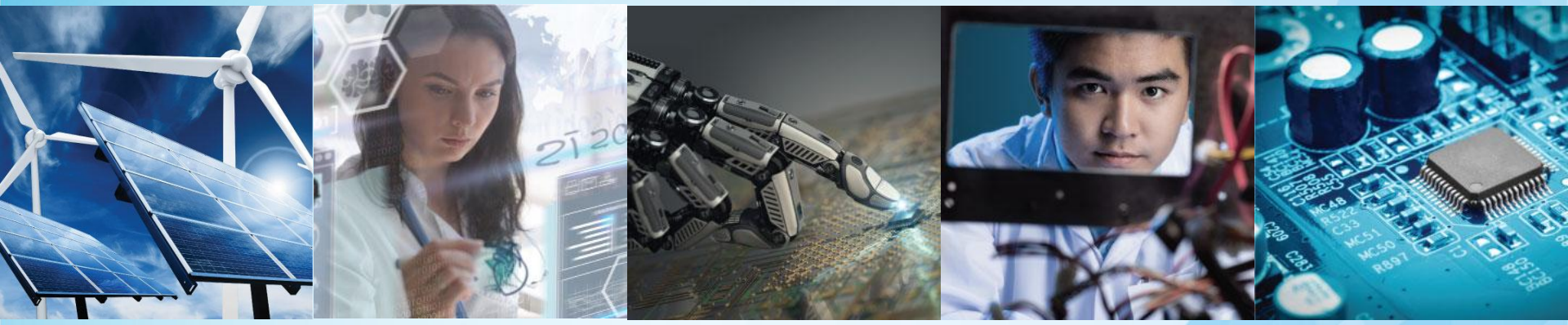
Pre-University Education WG

Main Pre-University Initiatives

- Try Engineering Month Region 8
  - Encourage all R8 OUs to implement a program of STEM Portal
  - To be held in 2021 Q4
- Alpha Contest
  - Organising events to promote engineering to the society
  - Sections earn points with every educational event
- Collaboration with other OUs and R8 committees
  - Sections, SAC, SBs, YP, WiE



University Education Works Committee

Presented by:Nizar Rokbani

IEEE Senior Member

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UNIVERSITY ACTIVITIES WORKS COMMITTEE

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SPEAKER

NIZAR ROKBANI

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https://tinyurl.com/r8meetingPEASC

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University working committee - Nizar

Merge the language initiative with the University activities and made available the following University level Talks in French and Arabic :

- **AI and Big Data, Review & challenges**, by Prof Adel Alimi, IEEE SM,Tunisia Section, Sfax University Tunisia. (Arabic-English)
- **From Artificial Neural Networks to Deep Learning**, by Prof TareK Hamdani, IEEE SM, Tunsia Section, Monastir University Tunisia. (French)
- **Engineering with IEEE Ethics**, (Arabic-English) by Dr Hussein Mahdi IEEE SM Iraq Section, Diala University Iraq

Promoting a Specific TRyengineering/Stem contenant for University Students:

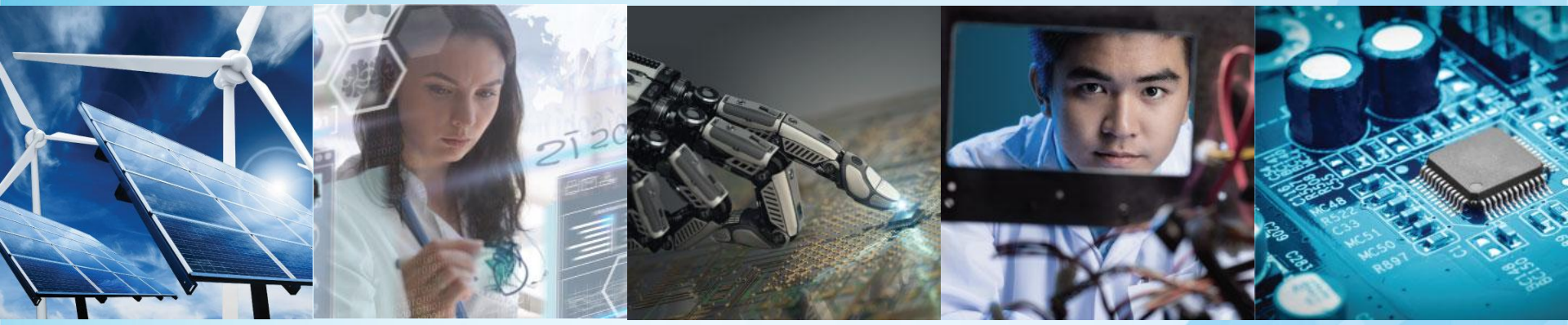
- Selecting and sharing on our portal a panel of Tryengineering activities which may be done virtually.
- Adapting existing contenant from the STEM portal to distance learning :
  - Blinking with arduino based on Tinkercad, Dc Drvie ….

University working committee

Re-estalishing the Acceleration contest under Covid

- Arranging the 2021' Acceleration Contest as an integrative Pof & Educational Activities for R8 sections.
  - Contacting previous edition winners, 2019, and Gather feed-back and expense reports.
- Arranging the new call of the contest to be inclusive for virtual en distance activities as a Covid response
- Identifying Prof & Educational activities sections officers to help in promoting the 2021' Edition of the contest :
- At University level
- At Pre-university level in collaboration with Ana Tigo

IEEE



Continuing Education Works Committee

Presented by:

Amith Khandakar

IEEE Senior Member, Qatar Section

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CONTINUING EDUCATION WORKS COMMITTEE

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SPEAKER

AMITH KHANDAKAR

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https://tinyurl.com/r8meetingPEASC

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Essential Skills for Development

- Entrepeneur.com put out an article about the top 9 reasons millennials get fired, and the top five are: the need for independence, lack of confidence, anxiety, miscommunication, and that millennials lack vision.

- These are what we in the education world call “soft skills.”

PEA Speakers Program

- Should have already received the call for nomination for the speakers program.
- Deadline : 26th March 2021
- This time we are asking speakers to nominate themselves and **also recommend the language** they can the workshops on

- [ ] English
- [ ] Arabic
- [ ] French
- [ ] Spanish
- [ ] Portuguese
- [ ] Other:

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SPEAKERS
IEEE region 8

IEEE Region 8 Professional and Educational Speakers Program Committee (PEA SPC) is looking for thought-leaders, innovators, distinguished and experienced professionals who are willing to share their valuable knowledge in PEASC's fields of interest to IEEE Region 8 members and help them by providing guidance on developing useful skills for their professional life.

The program contains two tiers of Speaker profiles: Distinguished Speakers and Experienced Speakers.

Distinguished Speakers –
These speakers are international thought leaders from academia, industry, and government and will be available primarily to present face-to-face sessions if requested by IEEE Region 8 OUs. Region 8 PEASC funds the travel of these individuals to OU events and the OU is expected to cover local costs.

Experienced Speakers –
These speakers are experienced professionals from academia, industry, and government and will be available primarily for online sessions. They can also be invited for face to face sessions. PEASC doesn't cover any costs of these speakers.

We invite you to nominate such individuals, or yourself, in order to participate in our team of speakers.

Please read our PEA Speakers Program Manual .**before 26th March 2021(Friday)**

The selected PEA Speakers' term will last until the end of 2021. The form is available on the link below:

Form to Fill

Regards
Conrad Attard PhD
PEASC subcommittee chair

IEEE Region 8 Entrepreneurship Initiative

The whole committee is envisioned as:

- R8 Professional and Educational Activities
- R8 Action for Industry
- R8 Student Activities
- Abdullateef Aliyu - R8 Humanitarian Activities, R8 Entrepreneurship Initiative
- Mohamed El Dallal - IEEE Entrepreneurship, R8 Entrepreneurship Initiative
- Rawan El Jamal - R8 Young Professionals, R8 Entrepreneurship Initiative
- Seif El Hajjem - R8 Young Professionals, R8 Entrepreneurship Initiative
- Laura Gonzalez Llamazares - R8 Entrepreneurship Initiative
- Mohammad Zidan - R8 Entrepreneurship Initiative
- Vinko Lesic, R8 Young Professionals, R8 Entrepreneurship Initiative, R8 Life Members

Discussion:

Share with us some ideas you have planned for the coming months.

Which are your favorite professional and educational activities?

Engage with us: https://app.sli.do/event/m8c0cudf

https://tinyurl.com/PEASC2021

R8 Professional and Educational Activities

Educational Activities Key Principles

1. We invite you to reach out different OUs when organising activities

2. Educational concepts are very important when organising activities to ensure that STEM events are successful

3. Results are important! They need to be measured

4. Inform PEASC of your events and submit your activities through the STEM portal. Lets know about them.

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Professional and Educational Activities

Thank you

Keep in touch!

Like our FB page: /ieeeR8PEA

Engage with us: https://app.sli.do/event/m8c0cudf

https://tinyurl.com/PEASC2021