



IEEE Region 8 AdHoc on EPICS in IEEE

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AdHoc Committee Members

On behalf of Samarth Deo, Chair Region 8 AdHoc on EPICS in IEEE

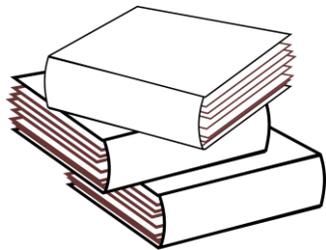


What is EPICS in IEEE?

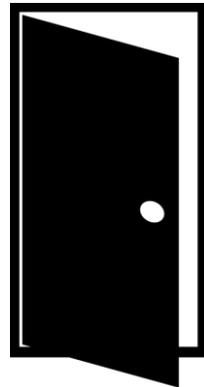
An IEEE Educational Activities Board (EAB) program that **supports projects** and **programs** that **advance technology and benefit humanity**.

EPICS in IEEE not only assists communities in achieving their specific local community improvement goals but also **encourages students** to **pursue engineering** for community improvement as a career.

By bringing together student branches at universities, IEEE volunteers, secondary students and non-profit organizations, there is a greater ability to solve issues within communities.



Education



Access and Ability



Environment



Human Services

Supporting the Advancement of Engineering Education

Solving community challenges through the power of technology and education, EPICS gives students a platform to work with engineering professionals to develop solutions that transform communities across the globe.

We champion a unique, **service-learning** approach to Engineering Education that focuses on hands-on experience and holistic skill development.

From involvement in EPICS in IEEE students can develop professional skills such as empathy, project management, adaptability, communication and leadership.

Technology can change the world, but it takes people working together, using skills such as communication, collaboration, and creativity to apply technical solutions to community challenges.

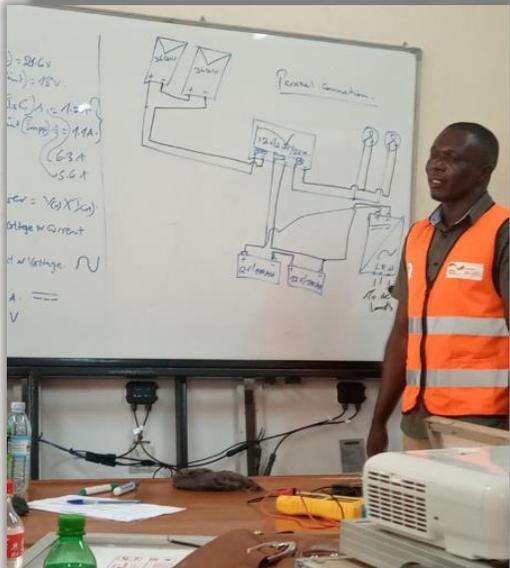


Installation of Solar System at Itara Health Center-Uganda

Human Services Project



- A team from the **IEEE Uganda Section**, along with other volunteers, worked to improve the health care system at **Itara Health Center**, in the Rubaya sub-county, through the installation of solar-powered electricity and a water treatment system.
- “Now, the health center has to ability to attend to patients at night, the security of the center has improved, and (the center) no longer has to worry about contaminated water,” according to project team member, Tumwebaze Antony. “We believe that this action has and will save numbers of lives and will be helpful to this community for a long period of time.”
- During this project, the team worked with **Changing Lives Uganda and Davis & Shirliff** to ensure all needs for the health center were met. Students from Rwantsinga High School also helped the team, while learning basic engineering skills, as well as hands-on installation skills.



Other EPICS in IEEE projects within Region 8

MODELLING AND DESIGN OF AN INTELLIGENT TRAFFIC CONTROL SYSTEM

Select engineering students at the University of Lagos, Akoka are participating in the planning and implementation of an intelligent traffic control system. A system will be designed to reduce traffic congestion by using semi-actuated or fully actuated traffic systems. The control system will be controlled by an image processing program, and an intelligent microcontroller, which can detect road congestion to change traffic signals.



Kenya, 2012: Using Renewable Energy To Promote Rural Education

Zambia, 2014: Digital Teaching Units

Namibia, 2015: Namibia Science Lab

Uganda, 2019: Smart Toilets for Accessible Use Within Ugandan Communities

Uganda, 2022: Harnessing Clean Energy For Community Benefit and Sustainable Development

2023 in a nutshell

- We had 8 committee meetings (almost one every month and a half)
- EPICS in IEEE workshops help at NASYP and CeuSYP
- As a result of outreach all along the year, we had more than 10 project proposals from

Region 8

- Macedonia section – approved
- France section - sent for resubmission
- Turkey section - sent for resubmission
- Lebanon section - in review
- Uganda section - in review
- Nigeria section – approved
- A few others from Uganda and Nigeria – approved

Help us grow in 2024

On behalf of the AdHoc Committee on EPICS in IEEE, the AdHoc requests:

- **Directors:** Support us in connecting with section chairs and other members of EXCOM
- **Section chairs:** Support us in connecting with students and student branch chairs; funding your students to participate in workshops that we conduct at different congresses
- **Young professionals committee:** connect us with YP Affinity Groups that might be interested in mentoring students
- **Student Activities committee:** come on board with EPICS and help us make an impact
- **Invite us to your local events/meetings** where we can talk more about EPICS in IEEE in a personal way
- **Advertise us on your websites/Facebook pages** or your mode of communication
- Send links to EPICS in IEEE in your communication channels

We are here to help students build a better world using technology, by funding them upto 10000 USD.
Help us reach the goal of “Advancing Technology for Humanity” as the IEEE taglines says.

Reach out to us...

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