



Advancing Technology  
for Humanity

# IEEE EPICS & Industry Engagement

Dr John Santiago



# EPICS

## ▶ Purpose of the EPICS in IEEE Grant

- The EPICS in IEEE grant funds **service-learning engineering projects** in which student teams **apply engineering design** to solve real community problems. Projects focus on community impact and student learning, not research for its own sake
- **Student-Driven Engineering Solutions for Community Impact**

## ▶ [May 2026 EPICS in IEEE Call for Proposals - EPICS in IEEE](https://epics.ieee.org/get-involved/may-2026-epics-in-ieee-call-for-proposals/)

- <https://epics.ieee.org/get-involved/may-2026-epics-in-ieee-call-for-proposals/>
- May 1<sup>st</sup>

## ▶ Proposal Guidelines (ages 5-17)

- Identify a **problem in your local community and partner with a non-profit organization**
- Detail how your **student team will solve it using engineering and technology**
- Projects must be **completed within 1 year or less**



# EPICS (Engineering Projects in Community Service)

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## Useful Official Links

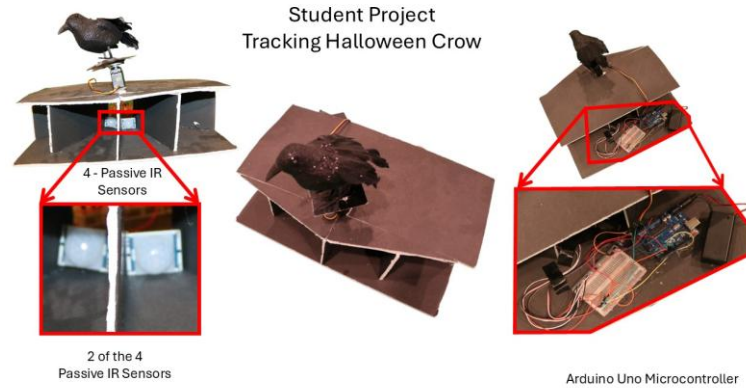
1. <https://epics.ieee.org/fall-2025-call-for-projects>
2. <https://epics.ieee.org/project-process>
3. <https://epics.ieee.org/getting-started>
4. <https://r5.ieee.org/pikespeak/epics>



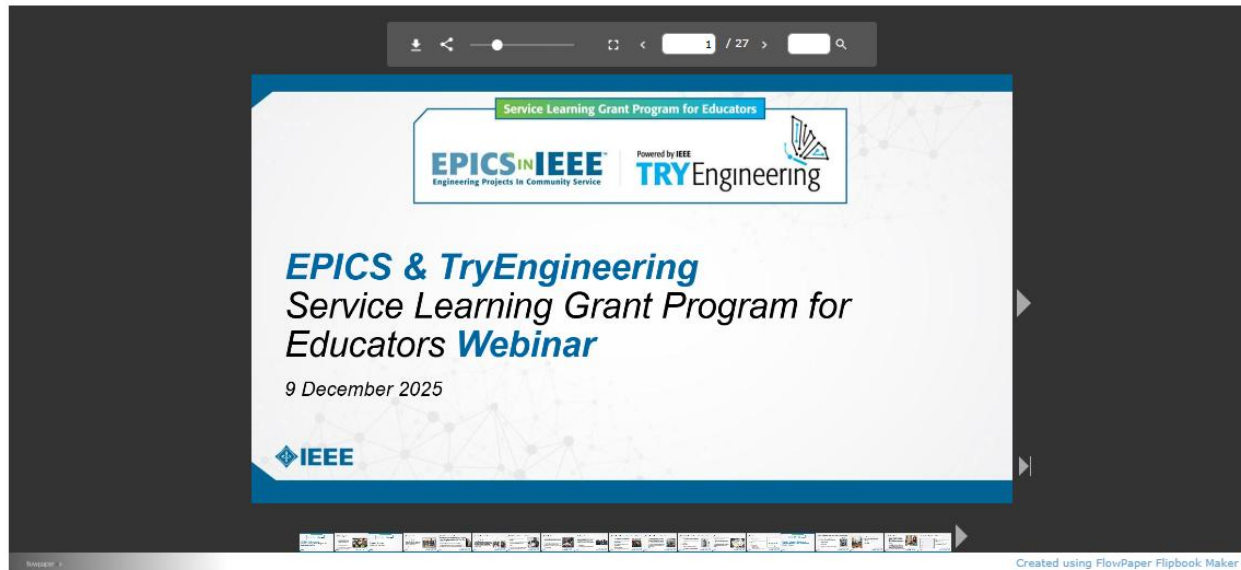
# Student-Driven and Potential Topics Spinoffs

## ▶ Monthly STEAM-TEAMS Meeting

- TEAMS = Transparency, Entrepreneurial Engineering, Accountability, Mentorship, Sustainability
- STEAM TEAMS for Library 21c: Ent Conference Center at Library 21c
- February 23, 2026 from 5:00pm to 7:00pm, Dr John Santiago, Dileep Rai
- January 26, 2026 from 6:15pm to 7:30pm (bad weather), Dileep Rai, Senthilkumar Mehalingam



[Student Activities | IEEE Pikes Peak Section \(https://r5.ieee.org/pikespeak/student-activities/#1655832784573-d6b390a4-9f53\)](https://r5.ieee.org/pikespeak/student-activities/#1655832784573-d6b390a4-9f53)



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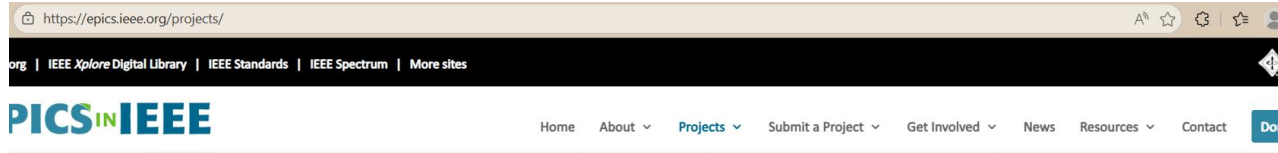
<https://r5.ieee.org/pikespeak/epics>

Intro Video

1. Download Fall EPICS in IEEE Grant



# EPICS PROJECTS (<https://epics.ieee.org/projects>)



**Transilvania  
University  
of Brasov**

**Modular Solar Energy System  
for Educational Outreach  
Camps – Romania**

Education and Outreach, Fischer-  
Mertel, Romania



**Sustainable Solar Panel Energy  
-Malawi**

Environment, Fischer-Mertel, USA



**The Rural Educational  
Advancement for Community  
Health (REACH) Web App  
Initiative**

AI Project, Human Services, India



**Sign Language-Based Multi-  
Modal Communication Aid for  
Special Children**

Access and Abilities, AI Project, India



**OptiGo: Autonomous  
Wheelchair for Elderly and  
Visually Impaired**



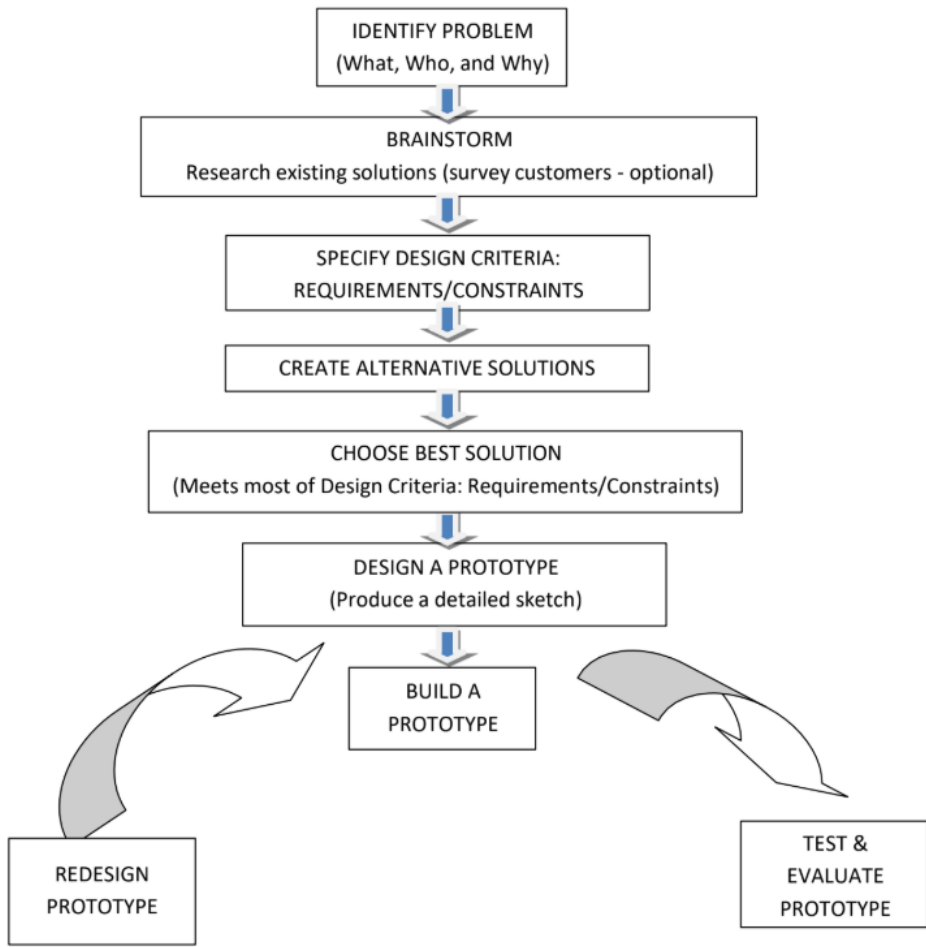
**IoT-Enabled Solar Energy with  
AI-Based Monitoring for  
Sustainable Living in an**



**F-Scales for Early Detection of  
Toddler Growth at Integrated  
Service Posts**



**Precision Agriculture:  
Optimizing Soil, Climate, and  
Seed Selection to Improve The**



# UCCS Events

- ▶ Invitation for Professional Association to Participate in UCCS Engineering Career & Internship Fair
- ▶ **February 24th** from 11am-4pm on the UCCS main campus.
  - 11 am – 2 pm: need help
  - 2 pm - 4 pm: Dr John Santiago
- ▶ UCCS Engineering & CS Resume Review Event
  - Open Time Slots as of 5 Feb 2026
  - Wednesday, **February 11th**
    - Shift 3, 3:30pm-6:30pm (2 people needed)
  - Thursday, **February 19th**
    - Shift 1, 8:00am-11:00am (1 person needed)
    - Shift 3, 2:00pm-5:00pm (1 person needed)