IEEE

Humanitarian Activities Committee

Humanitarian Technology & Sustainable Development at IEEE with HAC/SIGHT

Sampathkumar Veeraraghavan, 2021 Chair

IEEE Humanitarian Activities Committee (HAC)

13 March 2021

IEEE

Agenda

- The Role of HAC in the IEEE framework
- Benefits for IEEE members
- Engaging students and young professionals
- Overview of IEEE SIGHT
- Example of funded HAC/SIGHT Projects in the United States
- Opportunities to Get Involved
- Q&A

How HAC fits into the IEEE Strategic Plan 2020 - 2025

HAC is critical for helping to achieve the goals of IEEE

IEEE Humanitarian Activities Committee

HAC collaborates across and beyond IEEE to increase sustainable development innovation

HAC increases understanding of the role of engineering and technology in sustainable development

HAC provides educational resources through IEEE Learning Network, webinars, virtual forums, and in-person workshops

HAC fosters opportunities for hands-on, career-relevant experience through SIGHT and HAC projects

Through its global network HAC creates impact in underserved communities around the world

Benefits for individual IEEE Members

IEEE Humanitarian Activities Committee

Engaging in humanitarian technology activities with HAC/SIGHT can enable:

- Training and Awareness
- Professional Development
- Greater Purpose
- Project Funding
- Connection and Community
- Sustainable Development Community

Engaging Students and Young Professionals

- Approximately 70% of all SIGHT members are Student Members or Graduate Student Members
- Many Student Members and Young Professionals are actively involved with SIGHT Groups and on HAC/SIGHT Project teams.
- One student team shared their thoughts after participating in a project:

> "This was a really satisfying experience for all those involved... We **gained knowledge**, **improved technical skills**, **expanded our network** and **made bonds with the community**. We encourage engineers, IEEE members, volunteers and anyone willing to help implement humanitarian technology projects - we guarantee you will have **a great experience**."

IEEE Special interest Group on Humanitarian Technology (SIGHT)

IEEE Humanitarian Activities Committee

IEEE SIGHT is a popular feet-on-the group initiative within HAC; it is a network of IEEE volunteers around the globe that partner with underserved communities and local organizations to leverage technology for sustainable development.

SIGHT Members – 15,000+ in 117 countries

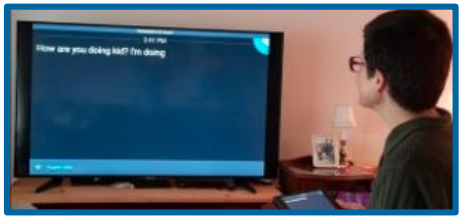
SIGHT Groups - 174 in 52 countries

IEEE HAC | IEEE SIGHT
FUNDED PROJECT
COVID-19

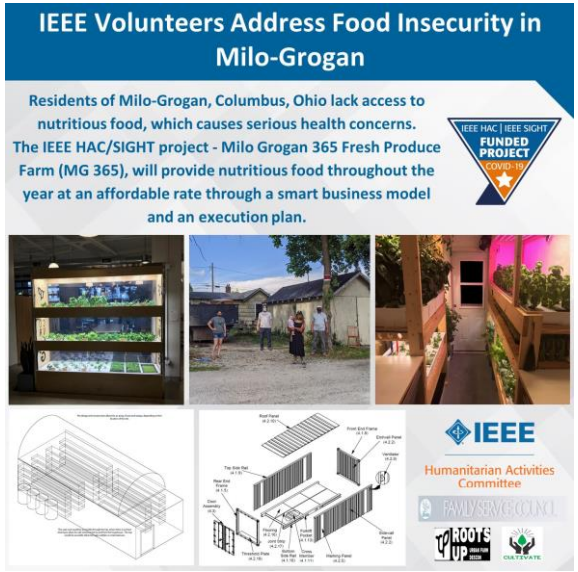
HAC/SIGHT Projects – 101 project proposals awarded $438k in funding *(2020 COVID CfP)*

Example of Ongoing HAC/SIGHT Funded Project in Region 1

- Project: "*Do Good Things Justice For All*"
- Location: New Jersey, New Jersey Coast Section
- Project Team & Lead: New Jersey Coast Section SIGHT Group, Dr. Katherine August
- Brief Description: This project team is developing captioning and simulation technology to improve speech understanding for people with hearing loss. They are also designing an experiential learning simulation and training system to show others how people with hearing loss experience the world. Local entities involved include a high school mock trial team, the Stevens Institute of Technology, and the County Clerk and the Court System in the State of New York.



Example of HAC/SIGHT Funded Project in Region 2



- Project: "*Milo Grogan 365 Fresh Produce Farm*"
- Location: Ohio, IEEE Columbus Section
- Project Team & Lead: IEEE Columbus Section SIGHT Group, Mr. Carl Lee
- Brief Description: Residents of Milo-Grogan, Ohio lack easy access to nutritious food. On average, neighbors have to travel three times farther to reach a full-service grocery store than they do to reach a fast food restaurant. The emergence of COVID-19 has disproportionately impacted underserved areas where food deserts exist.

  A team of volunteers from the IEEE Columbus Section SIGHT group led by the Section Chair, Carl Lee, is developing an automated hydroponic urban farm to provide access to nutrient rich foods and promote healthy lifestyles.

HAC 2021 Strategic Goals

Building on work begun by past HAC & SIGHT Committees

IEEE Humanitarian Activities Committee

- Increase Engagement with IEEE Societies
- Strengthen Involvement with IEEE Regions
  - Pilot Regional project co-funding program
  - Engage Student Members
  - Cross-promotion of relevant information
  - Provide conference and event speakers upon request
- Activate Partnerships with MGA, EAB, TAB, and Standards
  - Pilot Section revitalization project co-funding program
- Grow Recognition of a Coordinated HAC/SIGHT Brand
  - IEEE HAC/SIGHT Sustainable Development Newsletter launched in January
- Lead Global Collaboration Efforts with International Agencies and Industry
- Implement Operational and Process Excellence to Align with Best Practices

Opportunities with HAC/SIGHT

- **Publicize** HAC/SIGHT opportunities in your Sections
- **Apply** for HAC/SIGHT funding – first deadline was 01 March; additional Calls for Proposals announced soon!
- **Add** SIGHT membership to your IEEE membership
- **Form** a SIGHT Group to assess needs in your local community, apply for financial resources, and implement a sustainable technological solution
- **Identify** potential opportunities for partnership, additional funding, replication, and scaling
- **Recommend** subject matter experts to be advisors on Communities of Practice
- **Take part** in the free, online courses on the IEEE Learning Network (ILN) that equip participants with a basic understanding of humanitarian technology and sustainable development topics
- **Let us know** if you have any questions, suggestions, or ideas

IEEE Humanitarian Activities Committee

IEEE SIGHT
Special Interest Group on Humanitarian Technology

Talk to us!

Reach out at hac-office@ieee.org

Questions?

OBRIGADO
gracias
どうも
hvala
DANK U
takk
MERSI
merci
obrigado
danke schön
köszi
PALDIES
muchas gracias
ありがとう
TEŞEKKÜR EDERIM
MOLTE GRAZIE
GO RAIBH MAITH AGAT
ARIGATO
謝謝
danke
grazas
THANK YOU
благодаря
GRAZZI
TAK
THANKS
どうも
qujan
TAK
asante
muchas gracias
vielen dank
PALDIES
OBRIGADO
mesi
благодаря
grazie
DZLEKI
спасибо
MULTUMESC
danke
DANK U
TACK
Gràcies
多謝
감사합니다
köszi
TEŞEKKÜR EDERIM
muchas gracias
obrigado
NA GODE