

IEEE ENGINEERING WEEK 2026 • REGION 5

# Engineering Leadership That Scales

Makerspaces as the Physical Key to IEEE's Educational Mission

*Turning Strategy into Sustainable Activation*

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**Roadmap Evolution:** Grows with new programs and technologies to highlight current opportunities.

**Deeper Integration:** Strengthens connections across IEEE so members experience a seamless journey.

**Member Voice:** Incorporates ongoing input to ensure the roadmap reflects real needs and aspirations.

**Intersection Insight:** Integrates guidance from industry, educators, and career advisors to support diverse learners and evolving workforce needs.

**Broader Reach:** Expands visibility across communities to inspire wider engagement.





## Illuminate

*the possibilities of  
technology by  
using it to  
address global  
challenges*



## Educate

*the next  
generation of  
innovators and  
engineers*



## Engage

*a wider audience  
in appreciating  
the value &  
importance of  
technology*



## Energize

*innovation by  
celebrating  
technological  
excellence*



## Future

*looks beyond our  
lifetime to shape  
the destiny of  
future  
generations*



Advancing Technology  
for Humanity

**Skillset is practiced**—hands-on building reveals hidden talents and passions

**Mindset is formed**—everyone becomes equal, whether brand new or super experienced

**Mentorship happens naturally**—shoulder to shoulder at the workbench, not in a lecture hall

**Academia ↔ IEEE ↔ Workforce** are bridged through experiential learning



# Pull-Based Activation: Reducing Burnout

Instead of pushing volunteers harder, create environments that **pull people in**. Makerspaces are natural pull systems.

**Lightweight & repeatable:** STEM kits, open build nights, maker challenges—low setup, high return

**No formal facilities needed:** Sections can use maker-thinking even without a dedicated space

**Volunteers activate themselves:** Interesting projects attract participation organically

**Capacity compounds:** Each event builds skills, relationships, and the next generation of leaders



# Engineer a Stronger Tomorrow

Makerspaces are where IEEE's mission comes alive, where we design leadership systems that sustain themselves, inspire innovators of tomorrow, and prove that advancing technology for the benefit of humanity starts with building something together.



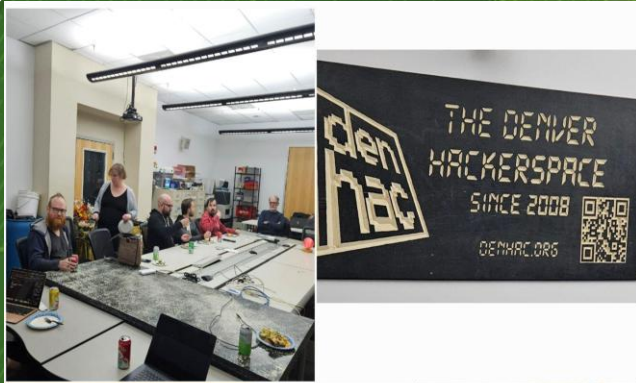
# Supporting local makerspaces with IEEE

Colorado also has active makerspaces at colleges and in other regions. By involving IEEE in supporting these makerspaces, we can fulfill members' needs for hands-on technical workshops, professional networking, and STEM outreach, while advancing IEEE's mission of technology education and innovation in community-supported spaces. This partnership will both broaden IEEE's impact and strengthen Colorado's maker ecosystem.



*Primary goal is to build a strong foundation of community engagement, practical learning, and public outreach throughout the Denver area and beyond.*

Goal: Build a strong local network through hands-on learning, inclusive events, and public outreach, uniting IEEE members with the greater makerspace community.



Throughout 2025, we expanded our efforts to engage with makerspaces across Texas and Colorado, from Boulder to Colorado Springs.

We have hosted events at venues such as Denhac, the History of Denhac presentation (first time this ever was discussed thanks to IEEE support), and tours of NIST facilities or upcoming School of Mines Makerspace tour.



Our collaboration with Denhac has also included prototyping and design support for name tags, challenge coins, and other initiatives. These efforts aim to strengthen IEEE's presence within the maker community and build lasting connections between IEEE and local makerspaces.