



STEAM-TEAMS Community Outreach

Dr John M. Santiago

Agenda

STEAM-TEAMS Community Outreach

- ▶ IEEE Fashion Marketing
 - Undergraduate Stole (IEEE Pikes Peak Section) – we can subsidize plus
 - Custom-made with University Logos – increase cost (university can subsidize)
 - IEEE Dresses – AI-generated
- ▶ IEEE Magnets, Vans, RVs (STEAM-TEAMS Logos)
- ▶ Fil-AM Celebration of Independence Day – 15 Jun 2025
- ▶ ASEE Rocky Mountain Conference (KEEN emphasis) mini website
- ▶ Space Foundation – Summer of Discovery: mini website
- ▶ STEAM-TEAMS Notes – Volunteers for Cool Science Events

Ask ChatGPT to Research IEEE Stoles



Graduation Stoles



Graduation Stoles



Graduation Stoles



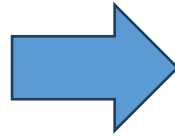
Imperfection instructions to ChatGPT



From KEEN Workshop, (KEEN = Kern Entrepreneurial Engineering Network)

The Amazon logo consists of the word "amazon" in a bold, lowercase, black sans-serif font. Below the text is a curved orange arrow that starts under the letter 'a' and ends under the letter 'z', pointing to the right.The FedEx logo features the word "FedEx" in a bold, sans-serif font. The letters "Fed" are purple, and the letters "Ex" are orange. A registered trademark symbol (®) is located to the right of the word.

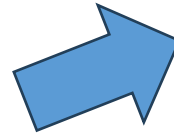
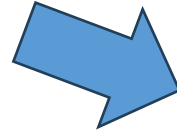
amazon

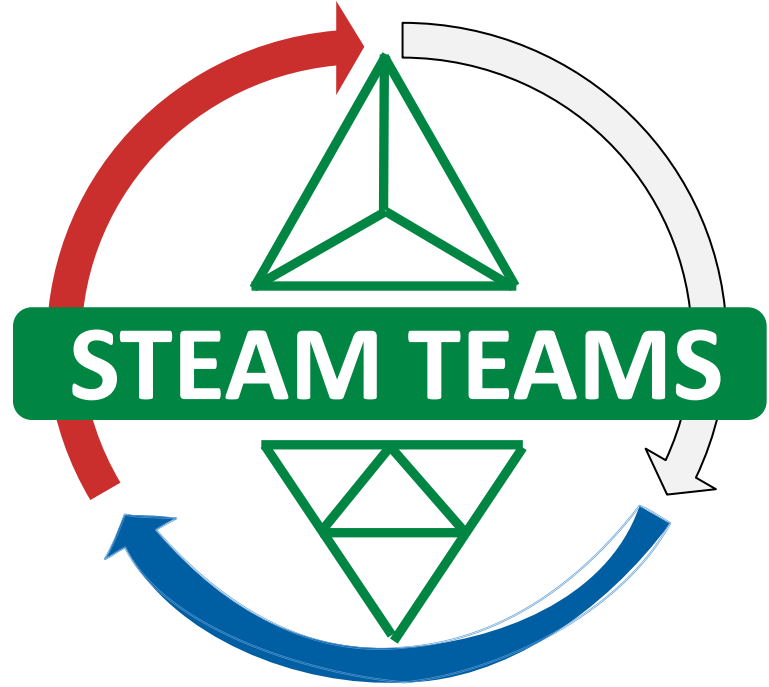
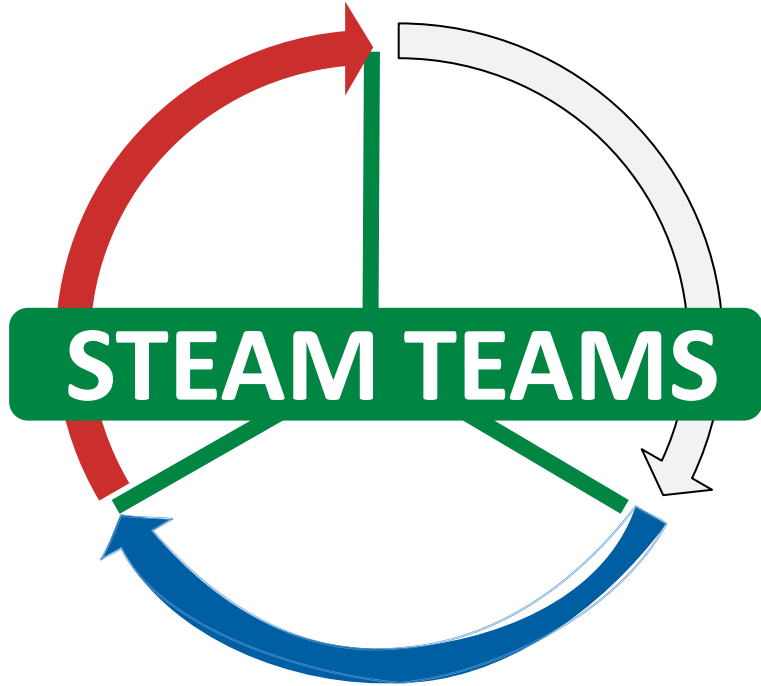


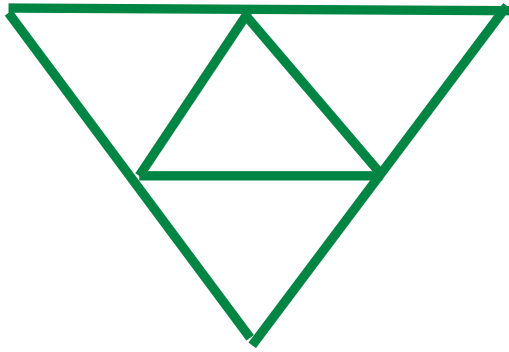
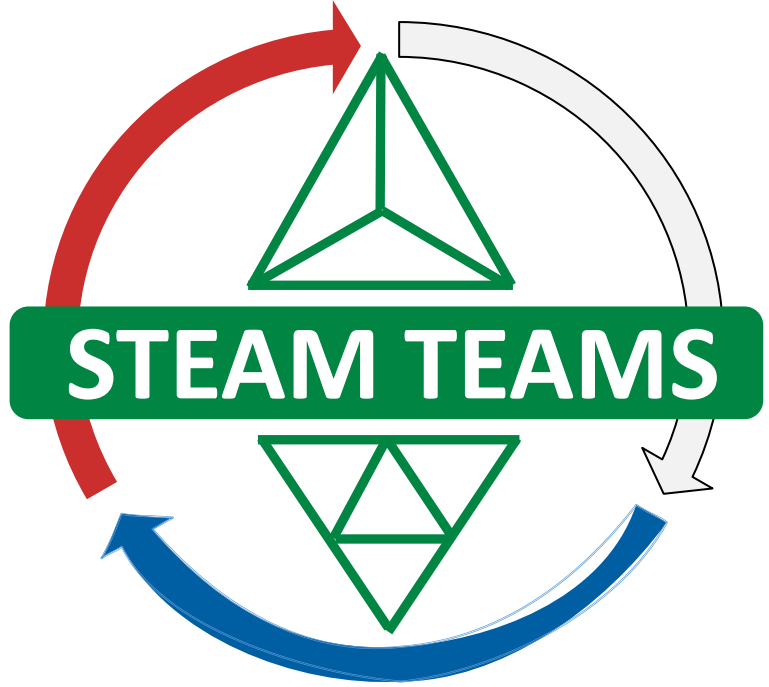
STEAM-TEAMS



amazon







ENGINEERING



- **MANY FACETS:** Like a diamond's cuts, engineering branches into countless specialties that together shine brilliantly.
- **PRECISION:** Just as diamonds are cut with extreme accuracy, engineering demands exact calculations and designs
- **DURABILITY:** Diamonds endure pressure—engineering solutions are built to last against time, stress, and challenges
- **VALUE:** Diamonds are prized treasures; engineering creates priceless innovations



ENGINEERING IS LIKE A DIAMOND

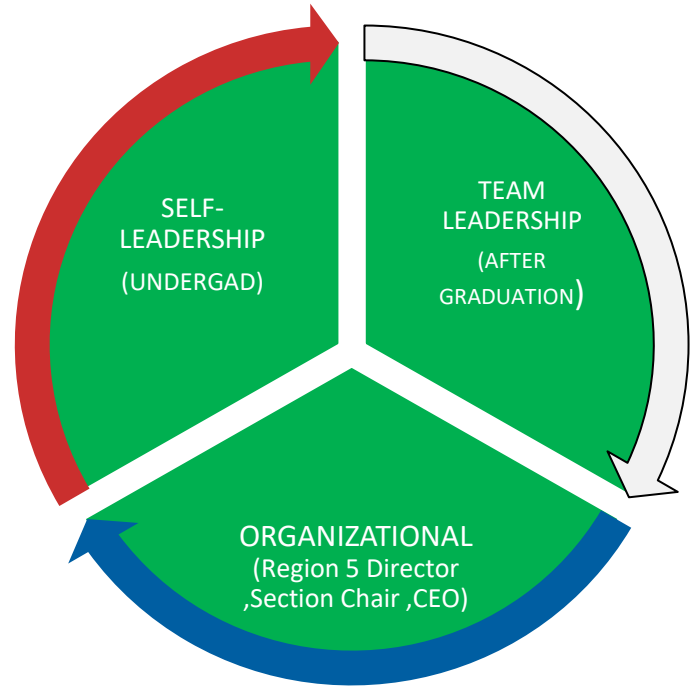
A fusion of brilliance, strength, and purpose.

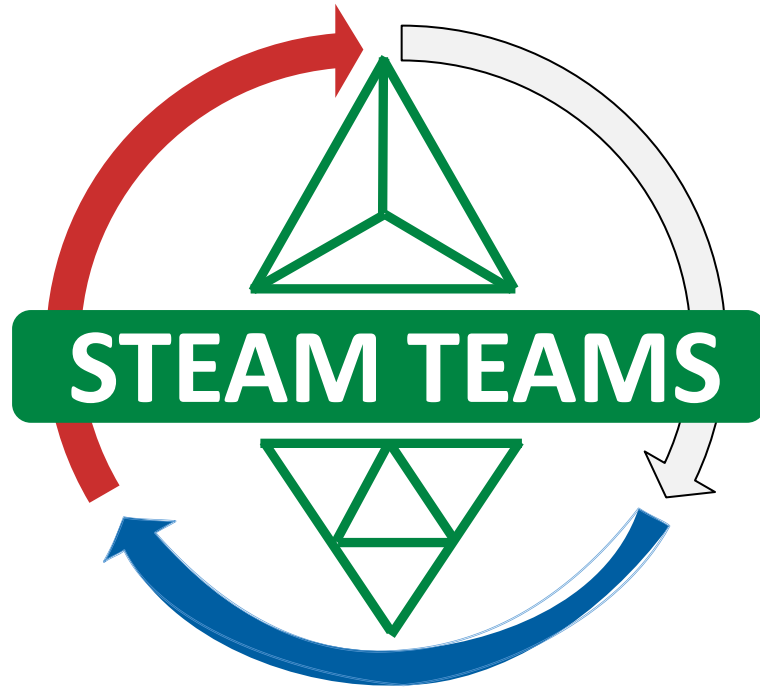
THE 4Cs of a DIAMOND (AND ENGINEERING):

- Cut** → Precision in design and execution
- Clarity** → Clear problem-solving and communication
- Color** → Diversity of ideas, disciplines, and innovation
- Carat** → The weight of responsibility and impact

THE 6Cs of the KEEN Framework (Engineering Mindset):

- Curiosity** → Ask why. Explore how things work
- Connections** Link knowledge across disciplines
- Creating Value** Design with purpose and benefit in mind
- Collaboration** Team up to solve complex challenges
- Communication** Share ideas clearly and effectively
- Character** – Lead with integrity and resilience





Hands-On Learning

IDEAL CASE: With just need 10 Turing Tumble kits, 10 Spintronics kits, and 10 dedicated volunteers, we can reach up to 100 students in a single visit."







*Filipino American Community
of Southern Colorado*
FACSC

Araw ng
KALAYAAN
PHILIPPINES INDEPENDENCE DAY

**FOUNTAIN CREEK REGIONAL PARK
2010 DUCKWOOD ROAD FOUNTAIN, CO**

Join us in celebration of
HISTORY | CULTURE | CUISINE | HERITAGE

June 15th, Sunday
10am-2pm



<https://r5.ieee.org/pikesepeak/squishy-circuits>

Vision	Scheduled Meetings	Training Videos	DIY Demos	Meeting Notes	Cool Science, What-If-Festival+More	STEM Grants	
Projects	Simulations	Resources	LMAG-YP	Non-Squishy Resources	More Lesson Plans	IEEE Education Cycle	DiscoverE
ICP	Storytelling						

11 Feb 2025 (Tues), 5:30 pm – 7:00 pm, 21st Century Library, Room B6 (see next tab with meeting notes)

17 Mar 2025 (Mon), 5:00 pm – 7:00 pm, 21st Century Library, Room B6

21 Apr 2025 (Mon), 5:00 pm – 7:00 pm, 21st Century Library, ENT Conference Room

12 May 2025 (Mon), 11:00 am – 1:15 pm, 21st Century Library, ENT Conference Room

16 Jun 2025 (Mon), 5:00 pm – 7:00 pm, 21st Century Library, ENT Conference Room

21 Jul 2025 (Mon), 5:00 pm – 7:00 pm, 21st Century Library, ENT Conference Room

18 Aug 2025 (Mon), 5:00 pm – 7 pm, 21st Century Library, ENT Conference Room

2025ASEE RMS Conference

- ▶ <https://r5.ieee.org/pikespeak/2025-rms-asee-conference>

Igniting Entrepreneurial Mindsets through AI-Assisted

STEAM Content Creation Using Camtasia

Dr. John M. Santiago, Jr. , Colonel (Retired, PhD), USAF

IEEE Region 5 Education Activity Coordinator (REAC)

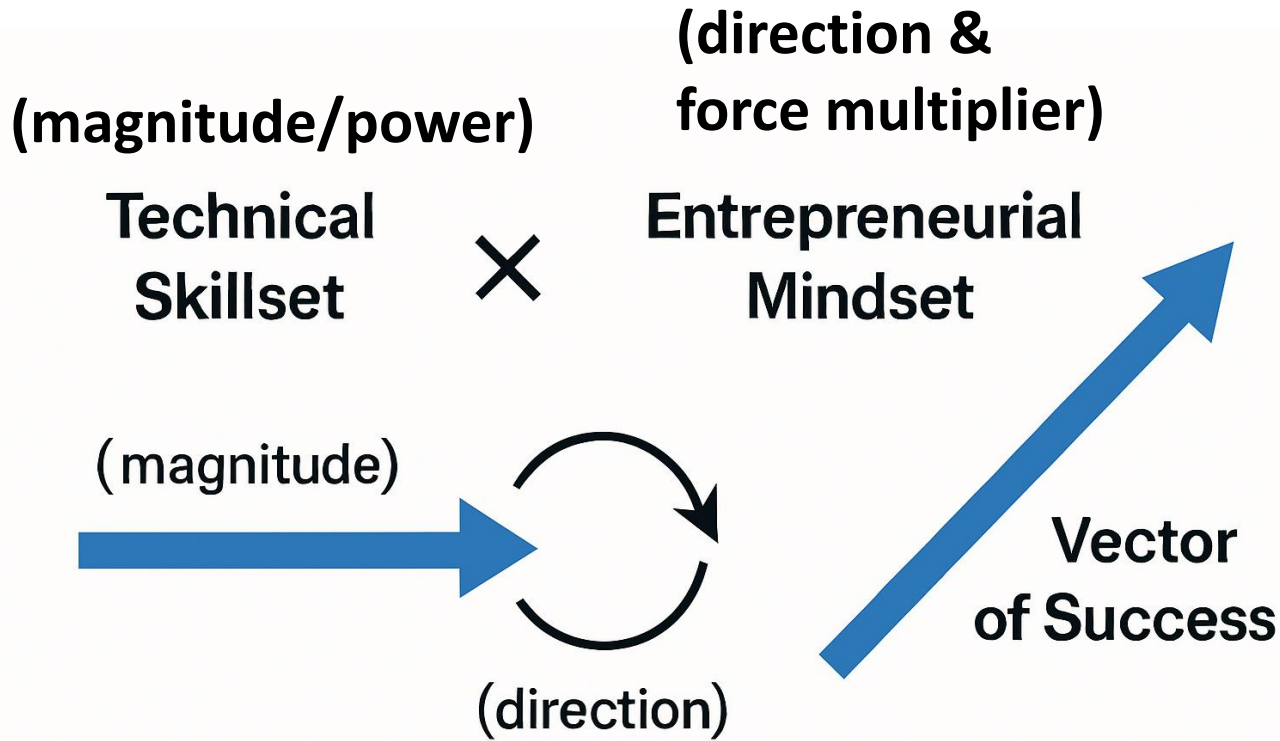
IEEE Life Senior Member | Past Chair, IEEE Pikes Peak Section

Webmaster, IEEE Pikes Peak Section

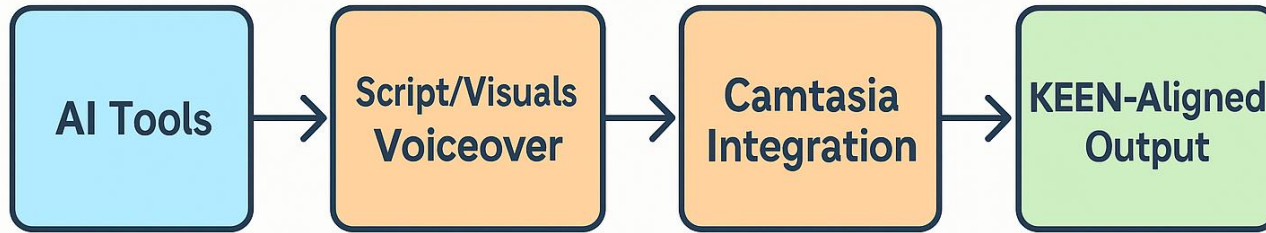
email: John.Santiago@ieee.org

KERN Entrepreneurial Engineering Network (KEEN)





Entrepreneurial Mindset (6Cs) is a Force Multiplier to Your Powerful Skillset



Space Foundation – Summer of Discovery



From Student Drones to Drones Arena

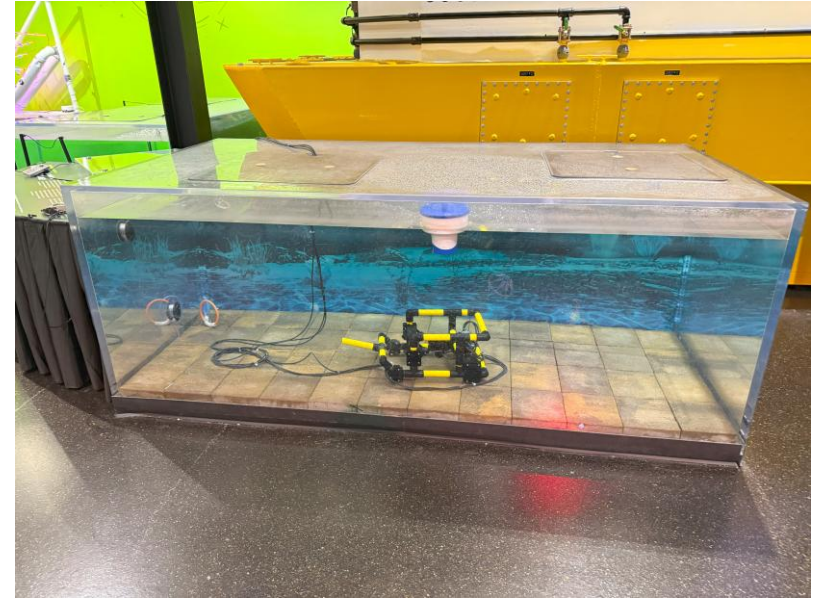
COMMUNITY OUTREACH



Straw Rocket Launcher

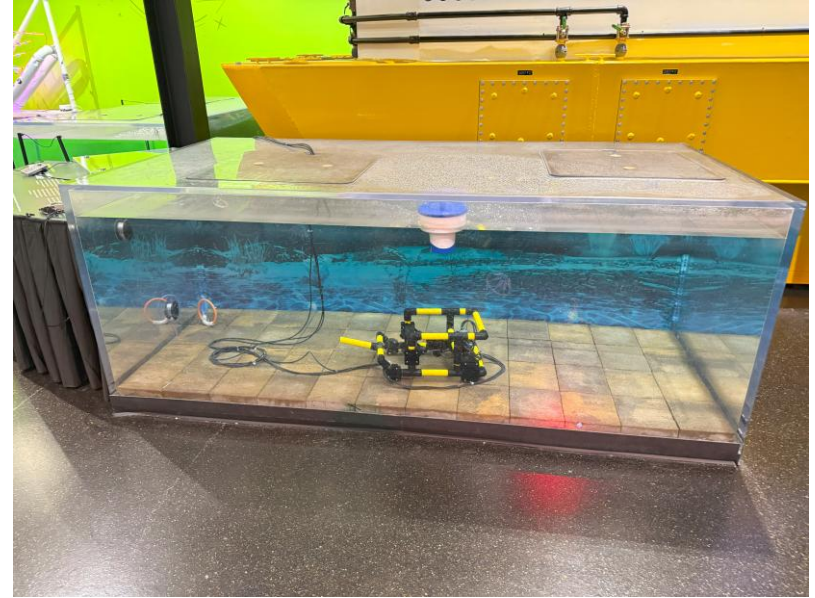


Other IEEE CTU Student Projects



Underwater Drone to Simulate Space Environment

Other IEEE CTU Student Projects



Underwater Drone to Simulate Space Environment

**NOT YOUR TYPICAL
SCIENCE FAIR:
EXPERIENCE
COOL SCIENCE
WITH IEEE**

