

# 6/14 Presentation Agenda



1. Committee Member Introduction
2. The Mission and Vision
3. Activities
4. Future Events and Collaborations
5. NTMS Involvement
6. Q&A

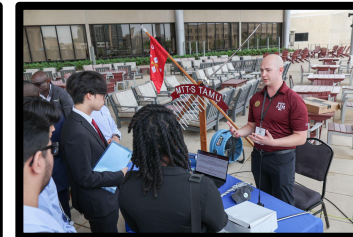
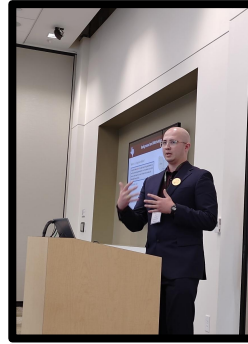


# MTT-S TAMU Chair



## Roman Venegas '25 '27

- ❖ Transfer Student from Texas A&M Commerce & Former Cadet of Company D-1
- ❖ Accomplishments:
  - Published IEEE Author:
    - *“Floating Solenoid Cable Trap”* EMBC 2024
    - *“A 2.4GHz Adaptive Radar Platform for Educational Activities on Cognitive Radars”* Texas Wireless Symposium 2025
  - Recipient of IMS 2024 Project Connect Travel Grant
- ❖ Current Projects:
  - Trying to Graduate Grad School
  - Emulation of Memory Based Processing
  - Building SDR kit with Flexible Antennas



# MTT-S TAMU Committee Member



## Eric Song

- ❖ Electrical Engineering Class of '27
- ❖ iEMSL Research Assistant
  - Developing a more accurate and cost effective way on waveguide calibration
- ❖ MTT-S TAMU Interorganizational Coordination Committee
  - Joined to be with other RF-minded individuals interested in spreading enthusiasm for RF and Microwave Technology
- ❖ Current Objectives:
  - Graduate
  - Continue Researching in RF/Microwave Engineering
  - Learn about PCB creation
  - Learn MatLab



# MTT-S TAMU Committee Member



## James Ervin

- ❖ General Engineering Class of '28
- ❖ Amateur Extra Class Operator, KI5UXW
  - Licensed back in 2022 as a part of the LASA High School Amateur Radio Club.
  - Participated in research during the 2024 Solar Eclipse with HamSCI
  - Deep fascination with antennas
- ❖ MTT-S TAMU Event Coordination and Technical Education Committee
  - Joined to learn more about RF and microwave engineering and meet other students passionate about the field
- ❖ Current Goals/Projects:
  - Graduating
  - Learning C++
  - Getting on the VHF/UHF/Microwave bands
  - Redoing my HF go-kit
  - Learning more about RF engineering



# Mission and Vision



**IEEE Microwave Theory and Technology Society at Texas A&M University (MTT-S TAMU)** will be a student chapter involved in Microwave Theory and Technologies.

## **Mission Statement:**

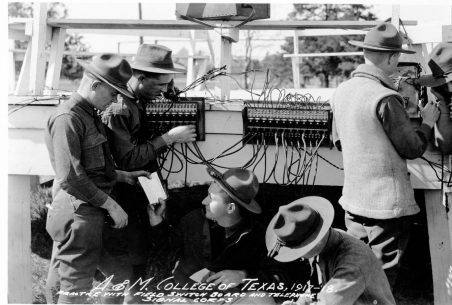
To facilitate an environment that helps students expand their knowledge of microwave(MW) and radio frequency(RF) theory, learn applicable skills related to MW and RF engineering, and grow as student leaders.

## **Vision:**

Our vision is to have all members become engineers who gain confidence in their practical knowledge of RF and MW engineering as they prepare to pursue jobs in the MW and RF industry.

**MTT-S TAMU Will Start Fall 2025**

# Mission and Vision: Building a Microwave / RF Community



MTT-S TAMU is committed to bringing Texas A&M's RF community, established in the early 1900's, into the modern era!

# Activities



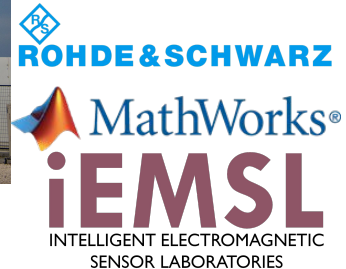
1. Bi-Monthly General Meetings
2. Graduate Student Presentation Sessions
3. MW/RF Industry Speaker Sessions
4. Coding/Simulation/Hardware Workshops hosted by MTT-S TAMU
5. Hosting semester long workshops leading up to a student competition, like Battle of the Dishes
6. Volunteering/Traveling to International Microwave Symposium
7. Participaction in Big Event and other Community Outreach Programs

# Future Events and Collaborations



## Events Currently Being Developed:

1. Rohde & Schwarz Get To Know The Company Event (FALL)
  - Micro-exhibition
2. MathWorks Sponsored Student Competition (FALL)
  - Parabolic Dish Construction (BATTLE OF THE DISHES)
  - Workshops will be held leading up to the event to build microwave components
3. Cadence Microwave Design Workshop (FALL / SPRING)
4. iEMSL Vector Network Analyzer Training (FALL)
  - Measuring single and two port electromagnetic system
  - Measuring Filters and Can Antennas
5. MTT-S TAMU and W5AC Fox Hunts
6. Ansys HFSS Workshop
7. Guest Speakers and IEEE Distinguished Microwave Lecturers



# How Can NTMS Help Us Accomplish Our Mission?



- Elmering
  - Presentations and Speakers on Microwave Topics
- Participating/Supporting in MTT-S TAMU Microwave Operating Events
  - Equipment/Gear Support
    - Planning Support for MTT-S TAMU Workshops
- Hosting/Supporting Workshops on LNAs and RFzero Beacons
- Introducing MTT-S TAMU Members to Microwave Activities
  - Allowing MTT-S TAMU Members to Network with NTMS Members

# What will NTMS Gain from Being a Sponsor of MTT-S TAMU?



- Regular Attendance by MTT-S TAMU Members to NTMS Monthly Meetings
- Presentations/Status Reports on MTT-S TAMU Events and Achievements at NTMS Monthly Meetings
- MTT-S TAMU Members offering modeling assistance on antennas and RF circuits using Cadence AWR and ANSYS HFSS
- Participation in NTMS Microwave Operating Events During the Academic School Year
- MTT-S TAMU Support of NTMS Projects and Efforts
- Helping to Train the Next Generation of Microwave Engineers and Hams

Thank You for Your Attention!  
Questions?

Big Aggieland Thank You to Our Sponsors!

ROHDE & SCHWARZ



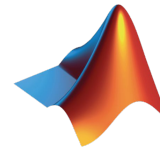
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Texas A&M University  
IEEE Student Branch

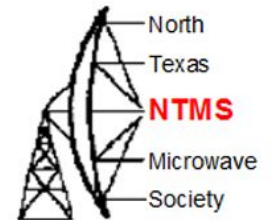


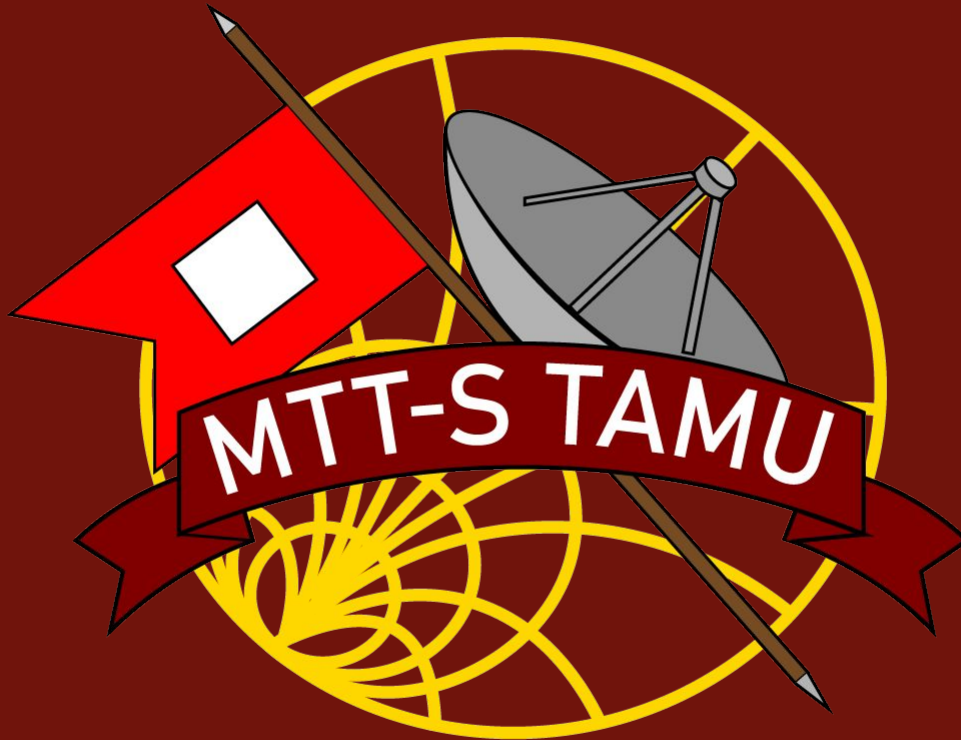
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