



# ME4182 & ME4723 (*other disciplines welcome!*)

Common Studio Session for Week #7

Date 02/20/2023

# Are you an Engineer?

From ABET Student Outcomes:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

# Caption This!



An ability to communicate effectively with a range of audiences

# What is Quantum Computing?



# Tips

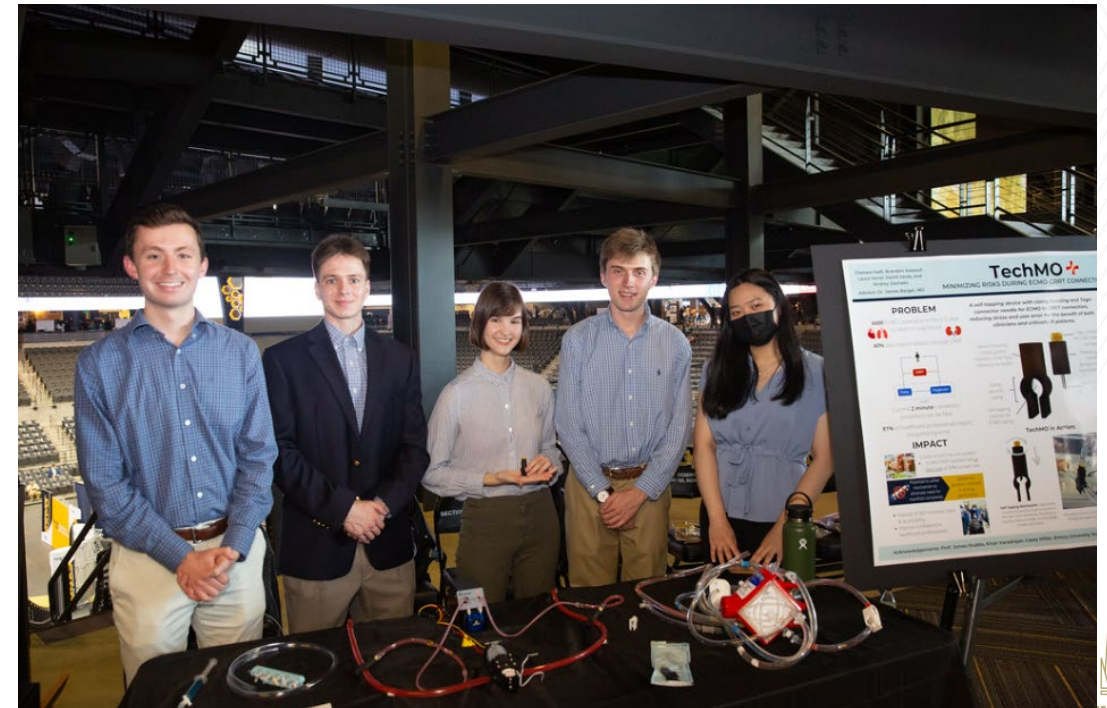
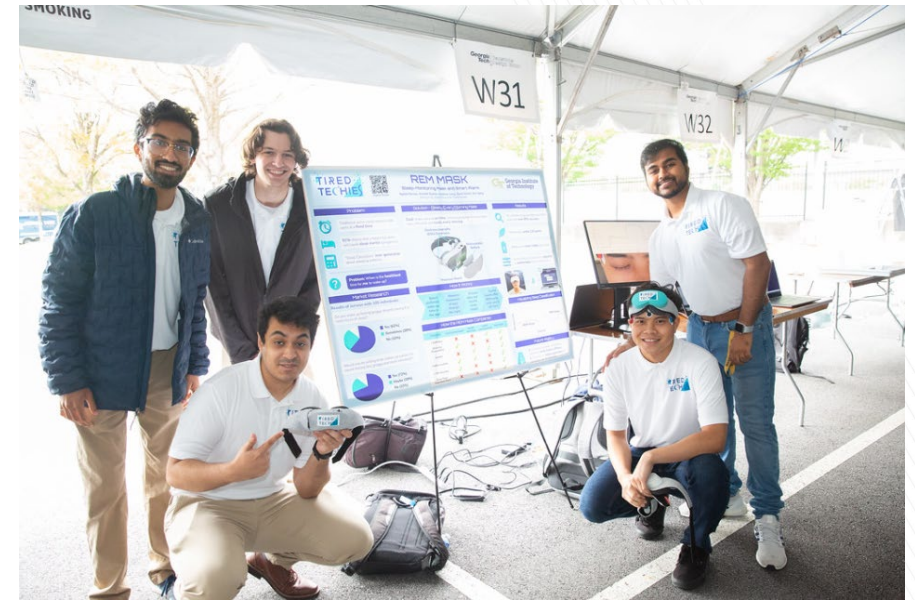
- Who is your audience?
  - Create an *Avatar*
- Why would they listen to you?
- What would you want them to “get” from you?
- HOW?
  - Ask basic questions to pick the right avatar
  - Start with a hook
  - Share just enough details to get them interested to learn more
  - Avoid Jargons



# Capstone Design Expo

## In-person on 25<sup>th</sup> April 2023

- 1-4pm:
  - Team members visit McCamish Pavilion to set up their project posters at assigned tables
- 4:00pm: Welcome reception for judges while attendees interact with teams
- 4:30pm: Judging begins
  - Judges can pick which of their assigned 4-5 teams they wish to judge
- 7:00pm: Awards' Ceremony
- 7:30pm: Event ends



# Capstone Design Expo

- Why?

- FREE T-shirts to all registered students
- Team Awards
  - Best Project from each School – \$1,000 for the team
  - Best Interdisciplinary Team – \$1500 for the team
  - Best Overall Team – \$3000 for the team
- Engage with judges, investors, recruiters, guests, and experts!

- How?

- Judges score teams (5 teams per judge and 4-5 judges per team)
- Rubric: [http://capstone.gatech.edu/expo\\_rubric](http://capstone.gatech.edu/expo_rubric)
- Register for the expo before **March 6**
- Summer 2020 Article: <http://me.gatech.edu/First-Ever-Virtual-Capstone-Mini-Expo>
- Fall 2020 Article: <http://me.gatech.edu/Fall-2020-Capstone-Design-Expo-Results>
- Spring 2021 Article: <https://www.me.gatech.edu/2021-Spring-Capstone-Results>
- Fall 2021 Article: <https://www.me.gatech.edu/news/fall-2021-capstone-expo-results>
- Spring 2022 Article: <https://coe.gatech.edu/news/2022/04/sleep-partnerships-shine-spring-capstone>





# Register for the Expo

- Link to register: [https://capstone.gatech.edu/expo\\_register](https://capstone.gatech.edu/expo_register)
  - Deadline to register is **March 6**
  - Only **one student** per team should create the team and add members
  - All team members can edit the project description AFTER the team lead has first entered the team/project info, up until the registration deadline
  - All team members can update the project description, project poster, and video demo link until 5:00 pm on the day before the expo.
- Link for How to Guide:  
[https://capstone.gatech.edu/expo\\_register\\_howto](https://capstone.gatech.edu/expo_register_howto)

# Expo Setup Types

- The options available are floor, poster, tabletop, and vehicle.
1. Select **Floor** if you plan to bring your prototype that needs to be placed on the group (cannot be placed on a table, for example, robot, cooler, etc)
  2. Select **Poster** if you do not need a table and only plan to bring a poster. The organizers might place teams with only poster requirements closer if there are overall space constraints.
  3. Select **Tabletop** to receive a 6' x 3' table
  4. Select **Vehicle** if you plan to bring a real size car

# Expo Presentation Assets

- Judges will judge posters/videos online from 10:00 am onwards on the day of the expo (25<sup>th</sup> April); followed by interactive QA in the afternoon
- All teams are invited to upload **both** posters and videos on the online expo website (by 5:00 pm on 24<sup>th</sup> April)
- Check out past expo projects here:  
[https://capstone.gatech.edu/past\\_projects](https://capstone.gatech.edu/past_projects)
- Additional Assets:
  - Oral Pitch/conversation
  - Printed Poster
  - Physical Prototype

# Project Intro Video Assignment

- 1-Minute Project INTRO Video Assignment on CANVAS by **5:00 pm on Monday, 6<sup>th</sup> March**. You can reuse this video for the final expo video
  - Talk **ONLY** about the **problem** you are trying to solve. You can make a longer (4-6 minute) video for the final expo
  - Please upload the video on CANVAS under assignments (only one member per team needs to upload)
  - Examples from Spring 2022:  
<https://www.dropbox.com/work/Semesters/Spring%202022/Capstone%20Design/ADMIN/1%20min%20Video%20Spring%202022>
  - CANVAS link - [ME4182](#) | [ME/ECE4723](#)



# Past Example

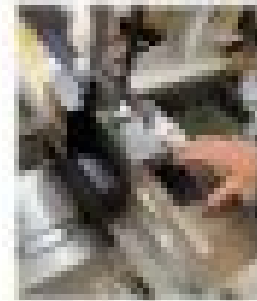
## Materials Team Project Problem

Bonnie Brownlee, Kendrick Dang,  
Tudor Hadade, F. Sam Horton, Charu Malhotra,  
Z. Stephen Nease, Lydia Stanford



## Adjustable Loading Tray

- Can accept different sizes of fabric
- Allows for Flexibility in operational use



# Expo relevant information for Students

- <https://www.capstone.gatech.edu/expo/students/>