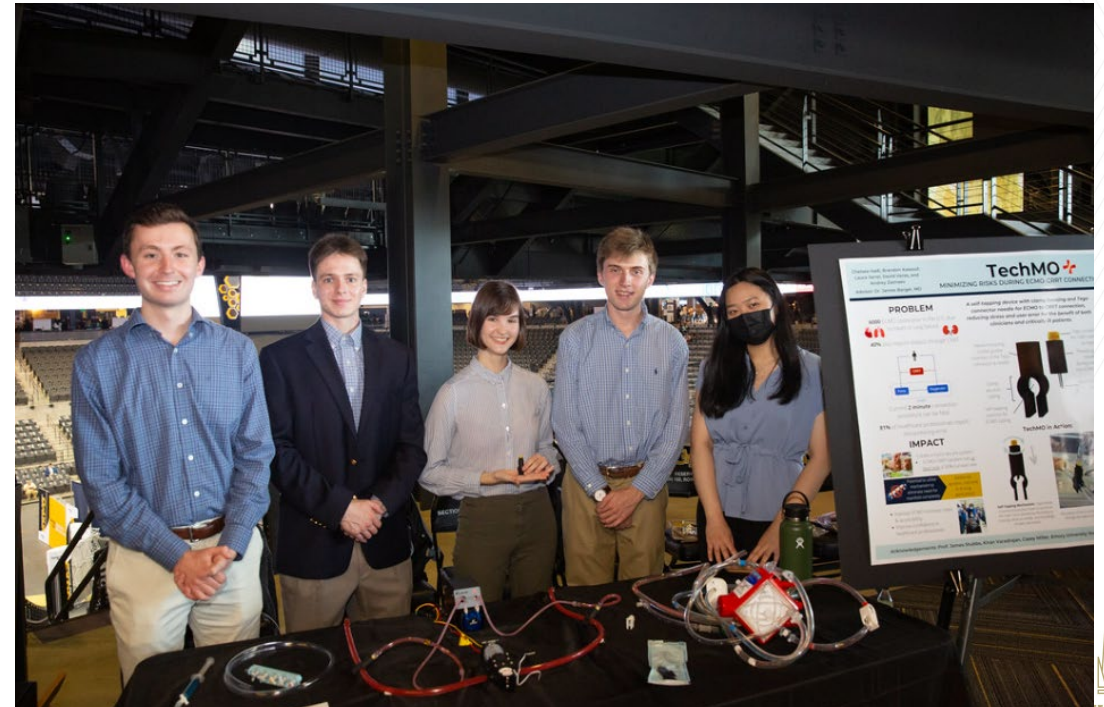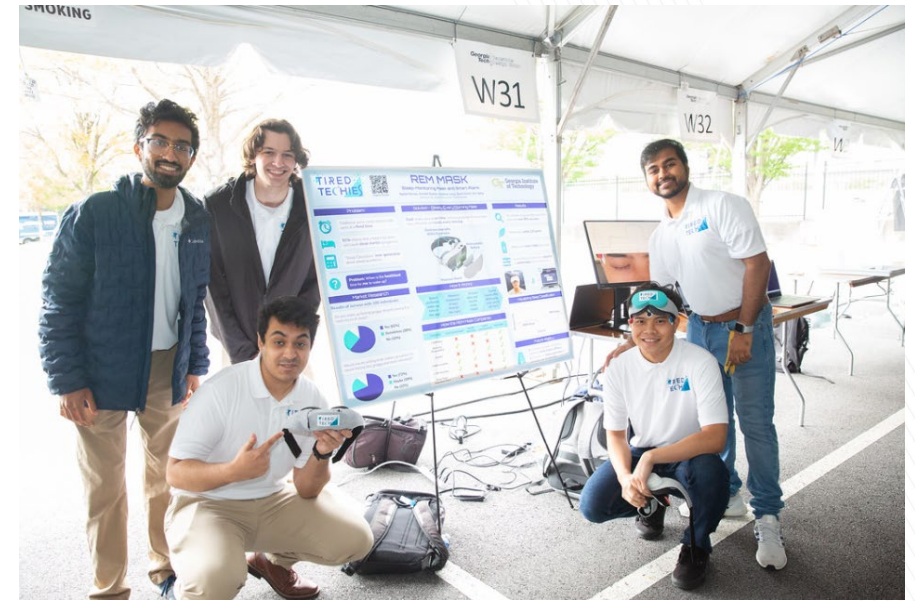# Capstone Design Expo Announcement

02/05/2024

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.

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Capstone Design Expo
In-person on 23rd April 2024

- 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
  - Register for the expo before March 1

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Expo Scoring Rubric for Judges

Each team will be judged on a 1 to 5 scale, 5 being the best, in the following categories:

1. Problem

Was the problem worth solving?
- 5 – Presented a significant potential impact by using quantitative and/or qualitative metrics to justify the project
- 3 – The project has a moderate potential impact
- 1 – The project has minimal potential impact

2. Solution

Proof that the solution works
- 5 – Successfully validated all critical aspects of the designed solution (through physical prototype and/or simulation)
- 3 – Validated a few aspects of the solution
- 1 – Conducted insufficient validation for the solution/recommendation

3. Innovation

Is the proposed solution creative?
- 5 – Original, non-obvious solution/recommendation
- 3 – Reapplication or recombination of existing solution
- 1 – Unsurprising/obvious solution

4. Presentation Energy

Did the team exude energy to get you excited?
- 5 – Incited investment in the problem/solution/project
- 3 – Neutral/unnoticeable energy
- 1 – Delivery detracted or inhibited audience investment

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Register for the Expo

- Link to register: https://capstone.gatech.edu/expo_register
  - The deadline to register is **March 1**
    - Register ASAP, and you can update until the deadline
  - 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, digital poster, and video demo link until 5:00 p.m. on Monday, April 22.

- Link for How to Guide: https://capstone.gatech.edu/expo_register_howto

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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

- For posters, please bring a poster backing board, for example a tri-fold poster board

Expo Presentation Assets

- Judges will judge posters/videos online from 10:00 am onwards on the day of the expo (23rd 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 22nd April)

- Check out past expo projects here: https://capstone.gatech.edu/past_projects

- Additional Assets:
  - Oral Pitch/conversation
  - Printed Poster
  - Physical Prototype

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Expo relevant information for Students

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