

The logo features the Georgia Institute of Technology name and a stylized tower icon. The background is a semi-transparent image of a mechanical workshop with various tools and equipment.

**Georgia  
Tech**

CREATING THE NEXT

# ME4182 Capstone Design

Common Lab Session #1

Date 05/18/2021

# Team Formation & Registration

1. Find team members or call for team members:
  - Based on project interest on <https://mecapstone.gatech.edu/marketplace>
  - Based on skills and experience on <https://mecapstone.gatech.edu/marketplace>
  - Self-identified/assembled on Piazza and during lab meeting on May 18<sup>th</sup>
2. Team sizes are **5-6** students per team. Class currently has 45 students enrolled
3. Create your “Group” on the marketplace website before **11:59pm on Tuesday, 18<sup>th</sup> May**
  - Refer HOW TO guide for marketplace here:  
[https://mecapstone.gatech.edu/marketplace\\_howto](https://mecapstone.gatech.edu/marketplace_howto)

# Types of Projects

- External sponsored projects (**E**)
  - Industry partners
  - Entrepreneurs
  - Non-profits, NGOs
- Faculty (**F**)
- Student initiated ideas (**S**)

- Each team should propose one backup project idea that they wish to work on in case their bids for sponsored projects are not awarded
- If your team does not wish to work on any sponsored projects, then it is Ok. You still need to submit your own project idea and send a dummy bid for that project

Visit this page to check out past Capstone Design projects for inspiration:  
[http://capstone.gatech.edu/past\\_projects](http://capstone.gatech.edu/past_projects)

## NDA:

- In rare circumstances, a Company's proprietary information must be shared with Georgia Tech, such as with the faculty coordinators and/or Project Team's faculty mentor. In such cases, a confidentiality agreement with the Georgia Institute of Technology (GIT) might have been executed. Student teams working on such projects will be required to accept the GT NDA form (which will be sent after the project is assigned to the team)
- Some projects might only need an NDA between the student team and the company. In such cases, the student team would be required to accept an NDA directly with the company. They will have to make sure to not disclose any company confidential information with anyone other than their own team (not even their faculty advisor).

## IP:

- For the course, students working on the project typically own the resulting IP that they create, and not Georgia Tech. Hence, students (and not GT) can assign any resulting IP to the company.
- Most **sponsors prepare an IP assignment document** for students to accept at the start of the project.

More info: <https://mecapstone.gatech.edu/sponsors/intellectual-property/>

# Project Pitches

- [E01-Aircraft Parking](#)
- [E02-3D printable partial foot prosthetic](#)
- [E03-Variable Diameter Nozzle for Blowers](#)
- [E04-String Trimmer Anti-Vibration System](#)
- [E05-Chainsaw Oil Pump and Reservoir Control System](#)
- [06-TENTATIVE Design a tactical solution for aircraft on board lavatory issues and improve customer](#)
- [S01-Paper-to-Plastic Origami Laser Cutting Production](#)
- [S02-Smart Structures](#)

# REMINDERS

- ALL Links, SLIDES and VIDEOS are posted here:  
<http://mecapstone.gatech.edu/students>
- Before **11:59pm TODAY**
  - Form and create your group on the marketplace site
  - Submit your own project idea on the marketplace site (at least one project idea per group/team)
- Attend the 2<sup>nd</sup> Studio on Wednesday, May 19<sup>th</sup> at 5:00pm  
<http://mecapstone.gatech.edu/studio>
  - **Topic:** User Needs, Design Specifications, etc.
- Teams will be assigned to projects and faculty on Thursday, 20<sup>th</sup> May by 12:00 noon. At 12:30pm, use the relevant link for the first lab to discuss your lab specific expectations with your assigned faculty
  - [Link for Dr. Jiao's Lab](#)
  - [Link for Dr. Jariwala's Lab](#)