ENGG 3961D Robotics Special Project: Unmanned Aerial Vehicle Competition 2024

Spring & Summer 2023-2024 (4 credits: 3 credits in Spring & 1 credit in Summer)

Course Description:

There are various of Unmanned Aerial Vehicle Competition in the world. Student teams will design and manufacture the drones for tackling different missions and challenges which are provided by the organizer. Normally, a project report is required. Enrollment in the project course may require instructor's approval. May be graded PP.

Course Requirements:

- Students have to submit peer- and self-evaluations during the course period.
- Each student/ group is required to submit a project proposal and the final report to the Project Supervisor(s).
- All students must attend the robotics competitions required.
- All students should commit to the agreed due dates and respect the time devotion for all interaction – punctuality and good preparation are expected.

Grading Scheme:

This is a 4-credit course (3 credits in the spring semester and 1 credit in the summer semester) graded by letter. Each student must complete all tasks on time and meet the course requirements, and performance will be assessed. Prototype deliverables and presentations are required. Additionally, each student is expected to have individual and group meetings with the course instructor and the teaching team.

Assessment weighting:

Robot design progress (presentation and prototype demonstration): 40%
Final robot design (presentation and prototype demonstrations): 20%
Peer evaluations: 25%
Final self-reflection Report and presentation : 15%