HW ASSIGNMENT 3

**Objective:** Working with your team, describe two possible project topics (1 document per team). The requested format for the description depends on the course level.

**ME 4340**
The description of each project should be formatted as a narrative followed by a lay summary. The description of each section is as follows:
- **Project narrative:** In no more than 4 sentences, Describe the project in a way that it will be understood by people who do not have engineering background. Be clear and avoid technical and scientific terms when possible. When formulating your response, it might help to imagine that you are explaining your work to a new acquaintance who does not work in the engineering field.
- **Lay summary:** In less than 400 words, address the following questions:
  - What is the major problem being addressed by the project?
  - What specific questions are you asking and how will you attempt to answer them?
  - What is the potential impact of this project?

**ME 6340**
The description of each project should be formatted as a structured abstract (350 words limit) including the following sections:
- **Project title** (135 characters including letters and spaces)
- **Background and objectives:** brief descriptions of the area of interest, the need for a CFD model and the central objective of the project
- **Methods:** based on what you have learnt so far from CFD analysis, describe your modeling strategy in terms of geometry creation, mesh, flow model selection, and flow characterization (post-processing)
- **Potential significance:** describe how the collected results may help address the knowledge gap or research questions