

# Chapter 1

## Work breakdown structure

In this chapter the Work breakdown structure (WBS) is discussed. The WBS will give another view on the work and activities that has to be performed. These activities will be organized in a AND tree. The project is divided in eight main activities. There is chosen for eight groups because these are the main design and organisational parts of the project. These activities are:

- Aerodynamic: In this group the aerodynamic of the AC will be discussed but also the atmosphere.
- Performance and propulsion: In this group the power source and propulsion system will be discussed.
- Control and stability: This group will discuss the control operations and how stable the AC is.
- Structural and material: Here the used material and structure of the AC will be divided in work packages.
- Payload and system: In this group the work will be shown what has to be done for the camera (payload).
- Operations: This is the work needed to be done to create the actual product.
- Project work: This is the non-technical part of the DSE with all the deliverables.
- Design/Product: This where all the previous part comes together to make a final design.

Each of the technical activity will be divided under a certain amount of persons. For every activity a program will be written that calculate all the small part in the tree of the activity.

The WBS will be shown in different figures first the Main activity tree this can be seen in fig:WBS. And then these activities will be each divided into other work packages, each shown individual they can be found in app:WBS.

Because there is not known if the final design will have a rotor or will be a wing, or use propellers or something else, therefore there is chosen to have an open WBS that we can go to any direction that is necessary to make an optimal design.

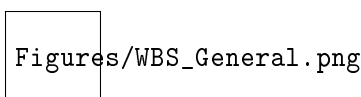


Figure 1.1: Main WBS tree