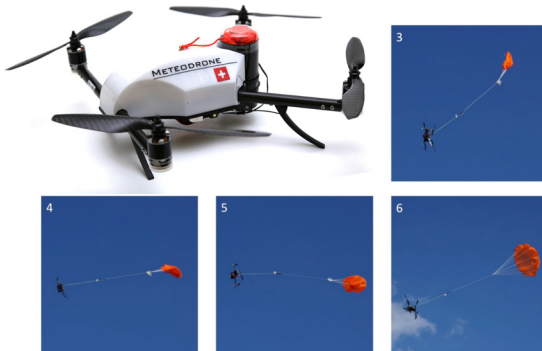


Preliminary Study on a Passive Rescue System for UAVs

GOAL Develop a safe, robust, and maintenance-free rescue system

- DUTIES**
- Lead a 3 members team through a complete feasibility study project
 - Analyse the required geometry and performance (MATLAB-XFOIL)
 - Supervise prototype design (CATIA V5) and its production (3D Print)
 - Assess the system's behaviour with models, simulation (SIMULINK)
 - Perform a flight tests to demonstrate the prototype's functionality



Rescue System at high wind speeds.

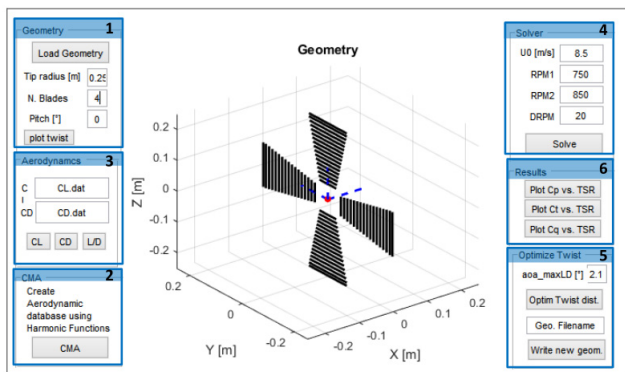


Figure 3.3: bemod GUI window



Tow-Octocopter

Prototype

< 100m
AGL



Grass runway

Figure 3.31 : Drop free fall test arrangement

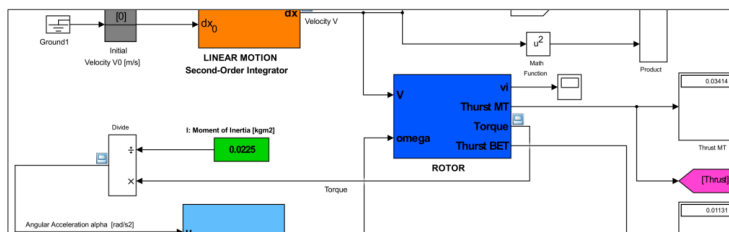


Figure 3.26: Simulink - rotor model subsystem

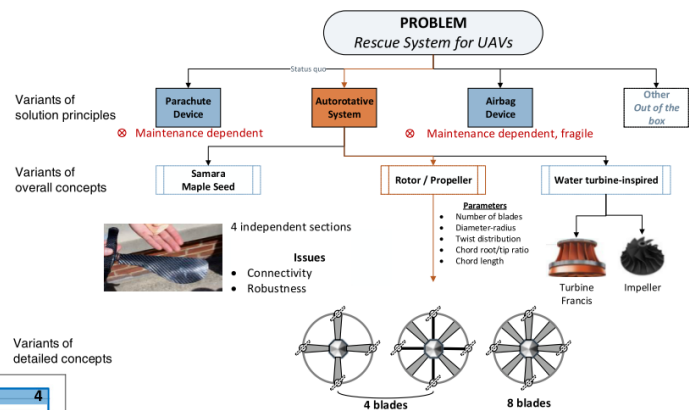


Figure 2.15: 3D exploded view of the prototype assembly

