**Copter test bench – project card**

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**Sub-module to: Universal Flying Platforms (UFP)**

The aim of this project is to create a bi-articulated arm which would hold an Enix copter during tests and protect it from damaging itself in result of flight stabilisation failures.

**Objectives:**

1. Safe motion range.
2. Adapted to Enix.
3. Rigid construction.
4. Minimal friction.

**Secondary objectives:**

1. Provide non-battery electrical power for the copter (100A, ~16V).
2. Provide orientation measurements from rotational joints of the bench witch could be recorded and analysed on PC.
3. Provide vertical thrust measurement (force sensor in the arm)

This device is not obligatory to finish UFP but it would be a very useful asset.

**References:**

1. Enix physical design (in Autodesk Inventor) https://github.com/jmnich/UFP\_Enix\_Physical]