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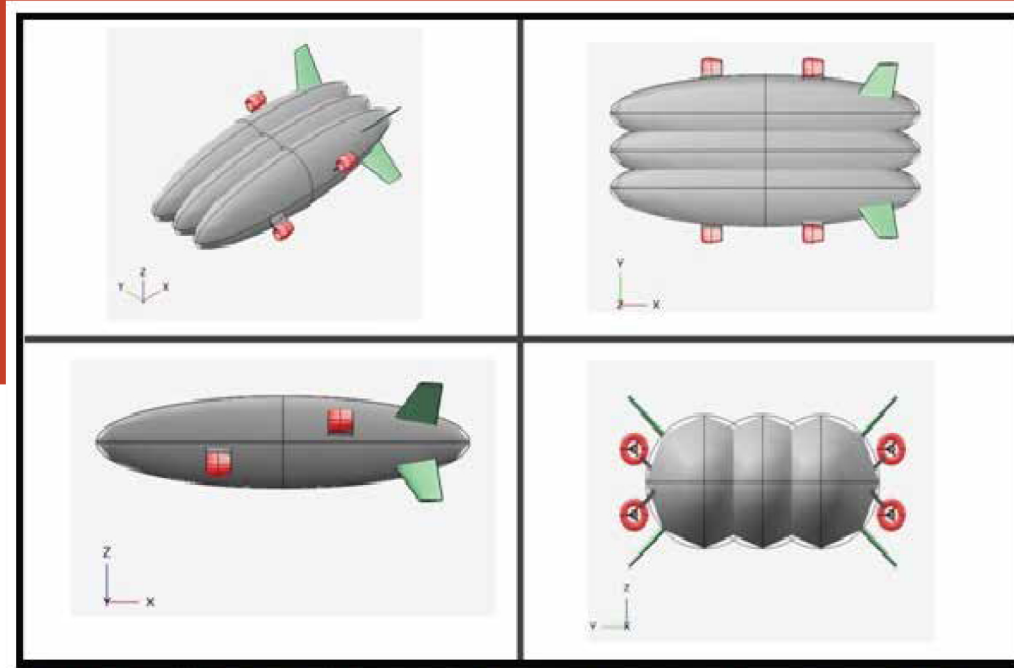
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21 PROJECT

HIGH ALTITUDE LONG ENDURANCE AERIAL PLATFORM (HALE-AP)



HIGH ALTITUDE LONG ENDURANCE AERIAL PLATFORM (HALE-AP) is the proposed title of the National Aeronautical Conceptual Design Competition - III. Here, an aerial platform (Airship / Aeroplane) is to be designed to fly at Stratosphere (above 12 km altitude) for one year continuously, without landing anywhere.

Features

- Payload - 100 kg
- Power used by the Payload -1000 W
- Lifting gas is helium
- Materials are current off-the-shelf Vectran fibre based fabric
- Endurance - 1 Year
- Range - 3800-3900 km
- Cruise Altitude - 15-20 km

Applications

- Civil Aerial Survey
- Military reconnaissance and surveillance
- Local Internet connectivity