

III. CONCEPT

These solar powered UAV's have capabilities to fly from 50000 to 95000feets.In 1995; NASA's UAV- Pathfinder set an altitude record for solar aircraft by climbing to 50,500 ft. The latest of the larger NASA funded aeroVironment solar planes was Helios. Helios set an impressive altitude record of 96,480 ft in year of 2001.3

In this concept Experiment, Power Energy of surface area in Solar cell generates as much energy as possible and designs to reduce wind resistance as well.

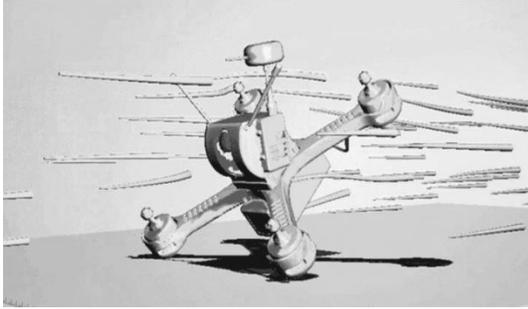


Fig. 2. Drone's Aerodynamic⁵

This study is designs for Solar Energy Generates with surface and aerodynamic design, and it is important to use computer simulations to test the most reception of Sun light.

IV. SETUP EXPERIMENT

Step-up involves all process from that a solar UAV undergoes from drones testing to solar drone experiment.

1. Find information to collect important theories and designs, as well as find information on the product you are looking for.
2. Bring the prototype to use and build the selected solar cells.
3. Operating the horsepower using software for system testing.
4. Take the best form to calculate the surface capacity of solar cell using database Thailand.

The steps of 3 and 4 are saturation to fry can stay in Computer.

V. CONCLUSION

The development of more specific UAVs today has resulted in a different optimize design response. The Beauty in style is rather than quality. As a result, the actual quality is lower than real performance.

The development of the shape to expedite the potential as well as the flight time is an important. Design and simulation with three-dimensional software create the best before the actual build including, can be tested on a variety of factors.

In the next experiment, the best model will print with a three-dimensional printer, is actually tested.

REFERENCE

- [1] Wikipedia, (2017). *History of unmanned aerial vehicles*, Retrieved on 07/09/2017 https://en.wikipedia.org/wiki/History_of_unmanned_aerial_vehicles
- [2] Wikipedia, (2017). *Unmanned aerial vehicle*, Retrieved on 07/09/2017 https://en.wikipedia.org/wiki/Unmanned_aerial_vehicle
- [3] Gaurav Kumar, Shubham Sepat and Shub ham Bansal, (2015). *Review paper of Solar Powered UAV*, International Journal of Scientific & Engineering Research, Volume 6, Issue 2.
- [4] Wikipedia, (2017). *Unmanned aerial vehicle*, Retrieved on 07/09/2017 https://en.wikipedia.org/wiki/Unmanned_aerial_vehicle
- [5] icrowdnewswire, (2017). *Archived: TANKY DRONE: Insanely Fast FPV Racing Quadcopter*, Retrieved on 07/11/2017 <http://icrowdnewswire.com/2016/10/28/tanky-drone-insanely-fast-fpv-racing-quadcopter-breathtaking-performance-race-proven-technology-speed-100mph-soar-like-bird-see-world-like-never/>
- [6] FAA.GOV, (2017). *The FAA's New Drone Rules Are Effective Today*, Retrieved on 07/11/2017 <https://www.faa.gov/news/updates/?newsId=86305>