

Gossamer Condor Design Brief

- Designer: **Paul MacCready**
- Problem Statement: **No human-powered aircraft has ever been developed that could truly fly or win the Kremer Prize.**
- Design Statement: **Design, build, and test a controlled, sustainable human-powered aircraft that meets the criteria set forth by the Royal Aeronautical Society for the Kremer prize.**
- Constraints:
- 1. Maximum 1/3 horsepower human engine output**
 - 2. Unassisted take-off**
 - 3. Able to ascend to a height of at least 10 feet**
 - 4. Must fly a continuous distance of at least one mile around two pylons placed 1/2 mile apart**
 - 5. Capable of making complete left and right turns**
 - 6. After a full mile-long flight, must ascend again to a height of at least 10 feet**