

## Assignment C3

The flying device shown in the picture is capable of flying a single user. Assuming that it has a very intelligent altitude control system (so that the flyer's altitude stays constant), determine the range of lift force the device must be able to provide. Given that

1. The user can tilt his head for the forward flying motion and sideways for the turning maneuver up to 45 degrees in any direction.
2. The user's weight ranges between 30-90 kg.

State any assumptions you have made.

