

- CFD analysis in Ansys Fluent is performed to demonstrate the real world physics applied on the aircraft and validate our XFLR results.
- The results show that there is a flow separation at 16.5 cm from the leading edge on the wing while at 12cm from the leading edge on the tail.

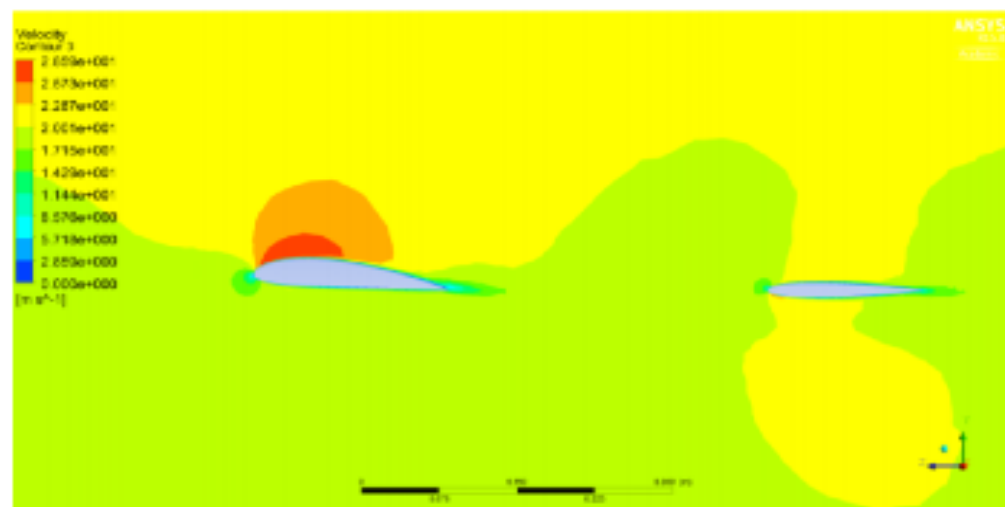
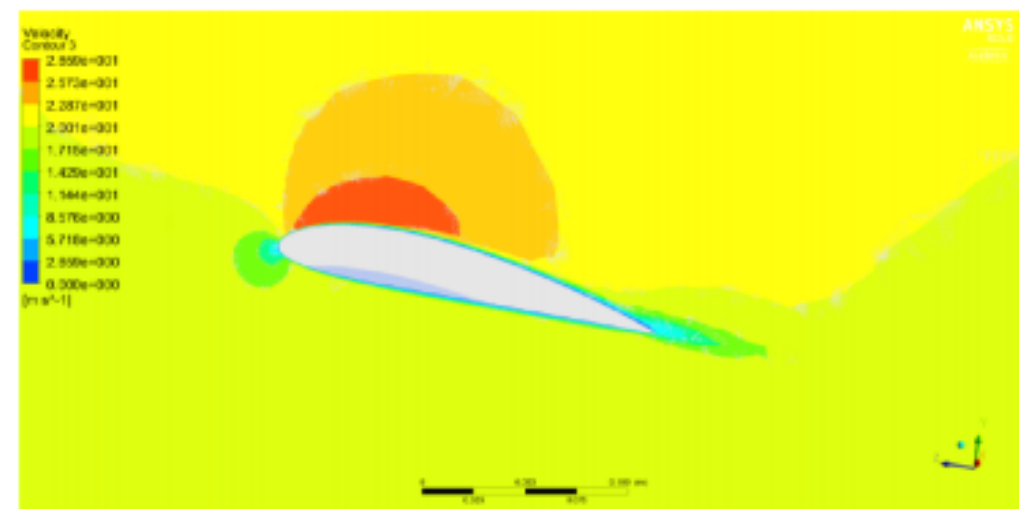
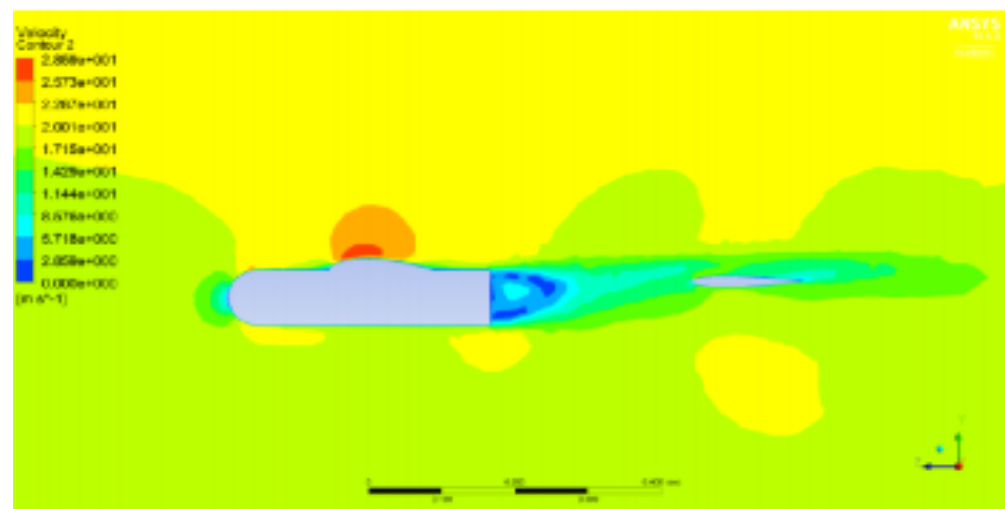


Fig. 2 (a) Fuselage Velocity contour (b) Wing Velocity Contour (c) Wing and tail velocity contour. Total lift produced by the aircraft will be 41.112



- For the first iteration instead of directly building a dual axis tilt rotor mechanism a single axis mechanism is built for proof of concept before proceeding forward

