

New Fuselage Design 02/03/2026

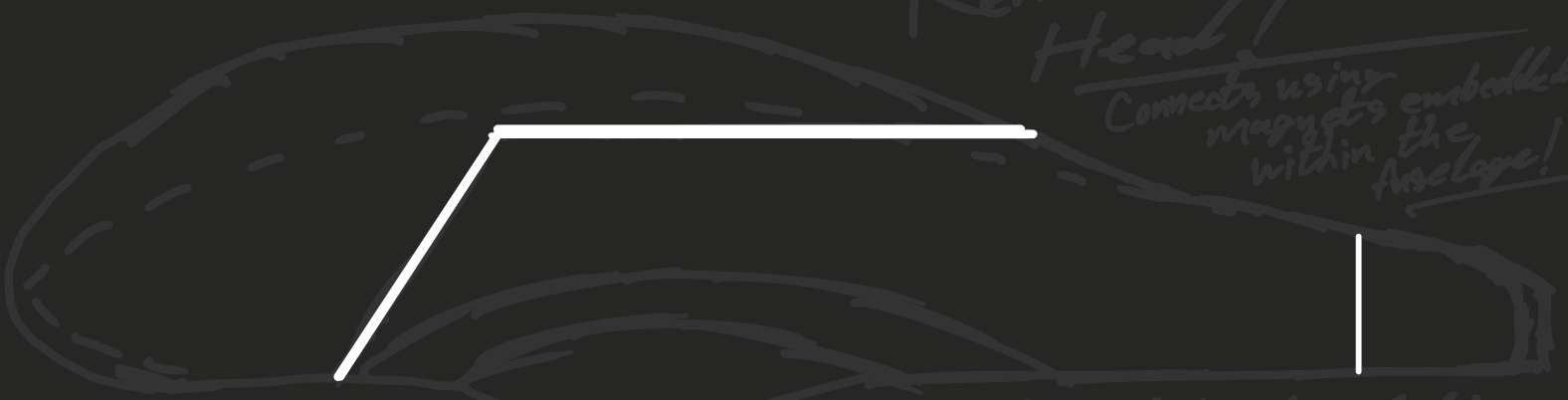
J. Singh

--- = Old  
— = New

White = detachable!

Removable Head!

Connects using magnets embedded within the fuselage!



Enlarged fuselage increases drag but smooth profiles limit this drag allowing more storage within the drone for larger payloads!

New V-Tail Expansion 03/02/2026

J. Singh

Old

New



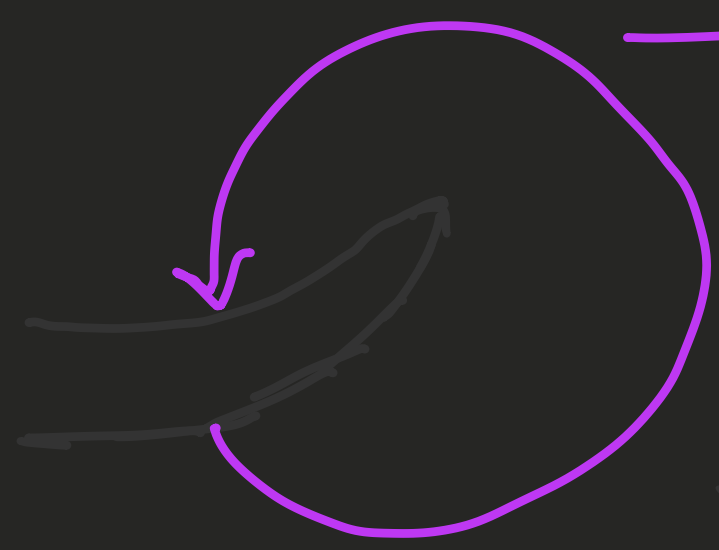
The larger control surfaces push more air, which increases force applied on the drone allowing more control authority under heavier loads!

New Winglet Design 03/02/2026

J. Singh

Old Profile:

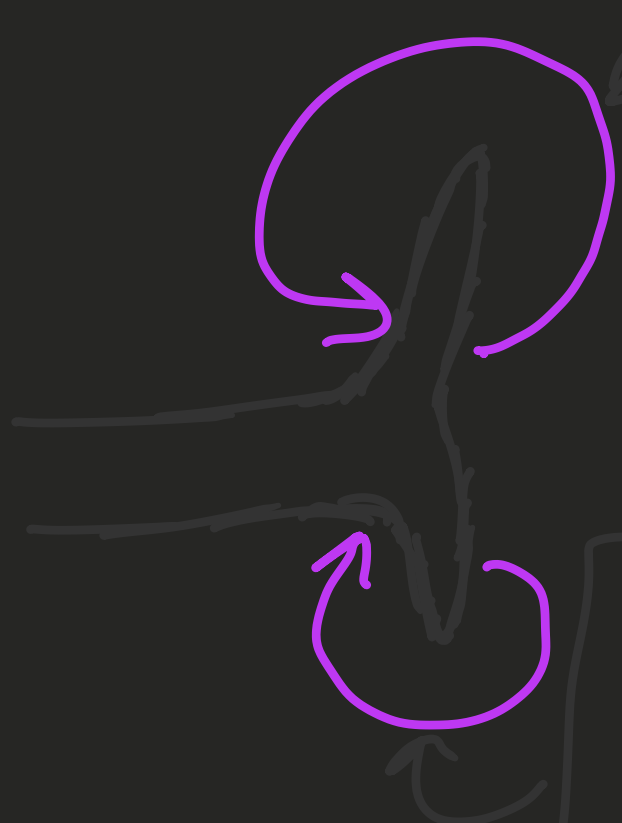
Purple = Vortex  
Generation!



This winglet still has a decent force on top from vortices!

New Profile: Split-Scimitar Winglets

Made by: Aviation Partners Boeing (APB)



Pushes against the side of the winglet which stabilizes the VTOL drone in-flight!

Bottom portions provides a miniature amount of lift which is nice!