Morphing Wing Unmanned Aerial Vehicle (UAV) for Loitering munition

Challenge

- Stringent weight Target with in 2.5kg
- Accommodating Wing Dihedral
- Location of Powerplant Mounting Plane

Scope

- Detail Structural design Concept Designs,
 Advanced Simulations for Aerodynamics, CFD
- Modal Analysis
- Wire harness routing Electrical Distribution
 System
- Concept Design
- Material Selection
- Structure configuration
- Weigh & CG
- Detailed 2D Drawing

Tool Used In

- CATIA
- Solid Works
- ANSYS

Impact

- Faster development of CAD Model
- 2D Manufacturing Drawings as per ASME 15.4Y
- Documentation as per AS9100 Rev. D Standards

