

2011 DBF Winners

- Georgia Tech
- Uni of So. Cal
- Purdue Uni
- Technion (Best Report)



Design Goals

- Hand Launch with NO assists
- MUST Land in successfully
- Max Number of Laps in **4** Minutes
- **3** lap flight with 3"x4" steel bar
- **3** lap flight with MAX number of Golf Balls

Georgia Tech Overview

- Flying Wing / Easiest to Manufacture
- Winglets / Stabilization
- Single Engine → Puller / Easy Hand Launch + Weight
- Large Prop / Faster → able to complete more laps
- Skid Pad (1 Wheel) / Simplicity
- Balsa Wood w/ Monokote + Carbon Fiber / Foam

USC Overview

- Conventional Wing / Various designs to study
- Single Engine → Puller / Easy Hand Launch + Weight
- Conventional Tail / Easy to Study + Manufacture
- Skid Pad / Simple
- Carbon Fiber Fuselage + Balsa over Foam Wing + Solid Balsa Tail

Purdue Overview

- Flying Wing / Good Lift to Drag ratio
- Winglets / Yaw Stabilization
- Single Engine → Puller / Easy Hand Launch + Weight
- Skid Pad / Simple
- Balsa Wood