Team Roster

Chief Engineer Erin Westbrook

> CAD Lead Chris Maples

Aerodynamics

Eric Ruhlmann (Lead) Jay Anderson Zach Etier (Car Lead) Jarrett King

Propulsion

Jared Allison (Lead) Bradey Baird Jacob Kuhlman Gloria Moseley Chris Petrin

Structures

Bobby Pollock (Lead) Sudarshan Dhakal JJ Estrada Arron Martin Zac Matson Harley Richardson David Strawn Wes Turpin



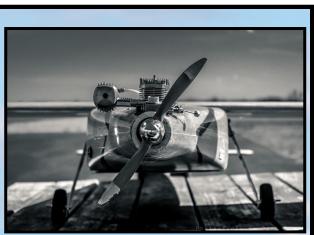
For Contest Information and updates, please visit **speedfest.okstate.edu**

To see past Speedfest and DBF projects, as well as other Oklahoma State research projects, please visit **aerodesign.okstate.edu**

Special Thanks

Andy Arena, professor Dan Bierly, pilot

Speedfest V April 25, 2015



Reckoning

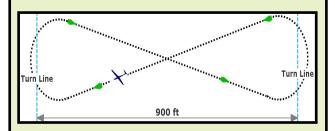


Black Team

Mission Requirements

Air Mission

The Timer begins. The Aircraft must be carrying a Payload. The Payload consists of an RC car and a GoPro Hero3 camera. The Aircraft takes off and must fly 15 flags, from pylon to pylon, on the following course. The Aircraft drops the Payload.



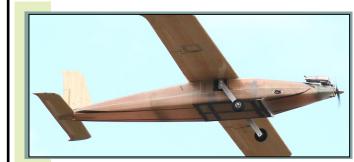
Ground Mission

The Payload begins the Ground Mission. The Ground Mission consists of a course on runway and grass. The Payload must navigate the course, view a sign, and come to the finish line to greet victory and glory. The Timer stops.

Victory

The shortest time wins. If an autonomous Payload is used, time is decreased by 20%. If the Payload does not finish, the mission time is increased by 75%. The Payload must prove it saw the sign and otherwise risk disqualification.





Car Specifications

E-Revo VXL 1/16th Scale Car Engine: Castle Creations 1/10th motor Autopilot System: 3DRobotics/Ardurover

Aircraft Specifications

Wing Area: 6ft² Wing Span: 6.5ft Wing Chord: 11in Taper Ratio: .9 Aspect Ratio: 7 Length: 66in Horizontal Area: 140in² Horizontal Span: 28in Vertical Area: 60in² Vertical Span: 10.5in GTOW: 12.5lb



