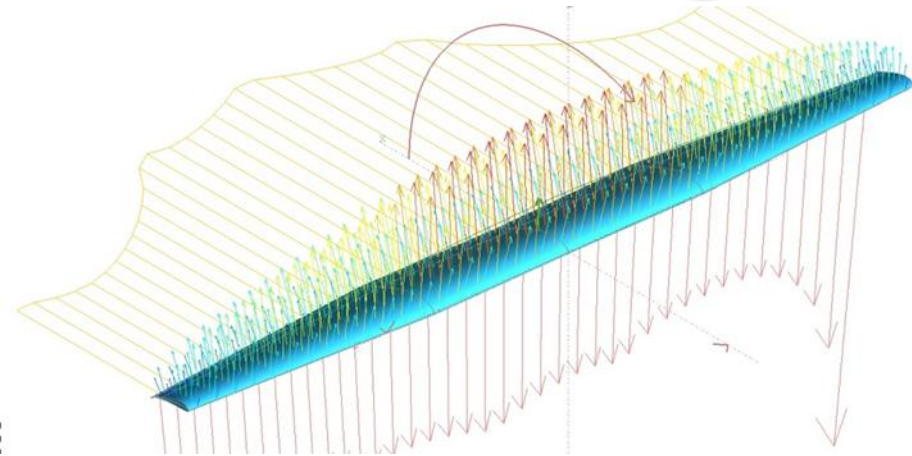




# Aero Design

## Group 10

Dimitrios Arnaoutis  
Alessandro Cuomo  
Eduardo Krupa  
Gustavo Krupa  
Jordan Taligoski  
David Williams



# Motivation

# SAE AERO DESIGN<sup>®</sup>

- ▶ SAE Collegiate Design Series





# Competition Field



# Previous Conceptual Options

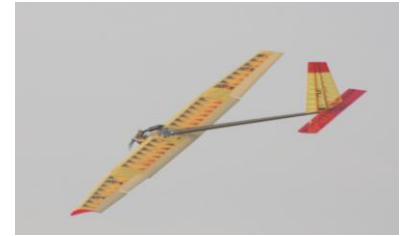
Flying Wing



Standard



Minimalist



Canard



Bi-Plane



# Switching Suppliers...

## Previous – High Fly Hobbies

- ▶ Stationed in Daytona Beach, FL
- ▶ Initial sponsor
- ▶ Promised supplies at shop's cost
- ▶ Failed to return multiple phone calls
- ▶ Dropped as Sponsor



## Current – Hobbytown USA

- ▶ Shops in 43 states, one in Tallahassee
- ▶ Has promised 20% discount on pieces < \$50 and 10% otherwise
- ▶ Much easier to reach for questions due to location





# Reintegration of Team

- ▶ Alex Cuomo and Jordan Taligoski return from Brazil
- ▶ Eduardo Krupa arrives to become the 6<sup>th</sup> member of the team
  - Brings 3 years experience with the competition
  - Different rules in Brazil; different construction method

Jordan Taligoski



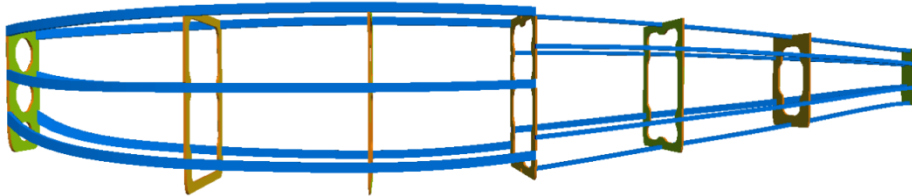
Alex Cuomo

Eduardo Krupa

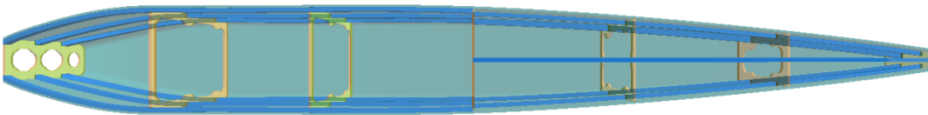
# Prototype Fuselage Drawings

- Designed using DevFus and will act as our preliminary structure for our aircraft
- Dependent on further structural analysis and testing

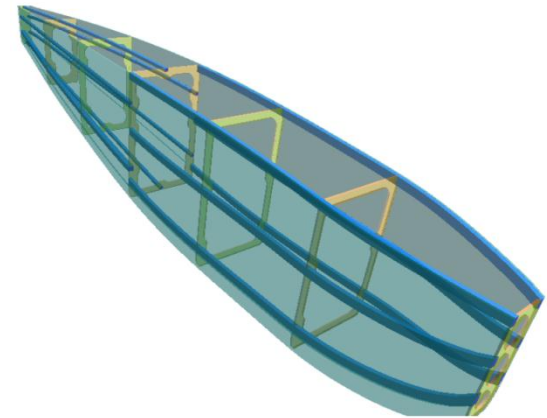
Side View



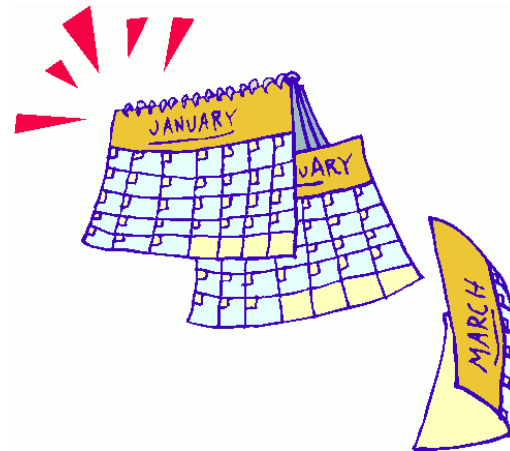
Top View



Perspective View



# Schedule



		Task Name	Duration	Start	Finish	Predecessors	Jan 15, '12	Jan 22, '12	Jan 29, '12
							S M T W T F S	S M T W T F S	S M T W T F S
1		Receive wood needed for construction	1 day	Fri 1/20/12	Fri 1/20/12				
2		Construction of wing	5 days	Sat 1/21/12	Thu 1/26/12	1			
3		Construction of fuselage	5 days	Wed 1/25/12	Mon 1/30/12				
4		Construction of tail boom	3 days	Sat 1/28/12	Tue 1/31/12				
5		Electronic and controls installation	1 day	Wed 2/1/12	Wed 2/1/12	4			
6		Wrapping of plane in skin	1 day	Thu 2/2/12	Thu 2/2/12	5			
7		Prototype test flights	1 day	Sat 2/4/12	Sat 2/4/12				

Note: tentative schedule



# Making Travel Plans

- ▶ Competition held April 27–29
- ▶ All nearby hotels have rooms at \$89/night
- ▶ Airstrip is in Marietta, GA
  - About a 6 hour drive from the college (328 miles)
- ▶ We will be using a CoE trailer to transport our large aircraft

# Questions

