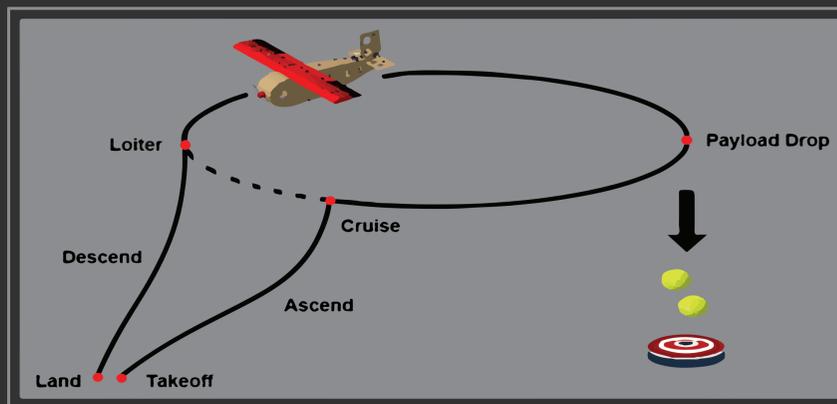


MISSION REIVEW

- HAND LAUNCH THE AVION
- EXTRACT AND ASSEMBLE THE AVION FROM THE STORAGE BOX AND PASS THE STRUCTURAL TEST
- DROP THE PAYLOAD AUTONOMOUSLY INTO THE TARGET ZONE AFTER 2ND LAP
- TRAVEL FOR ANOTHER 3 LAPS FOR A TOTAL 5 LAPS
- BELLY LANDING

FIRSTHERE!

MISSION PROFILE



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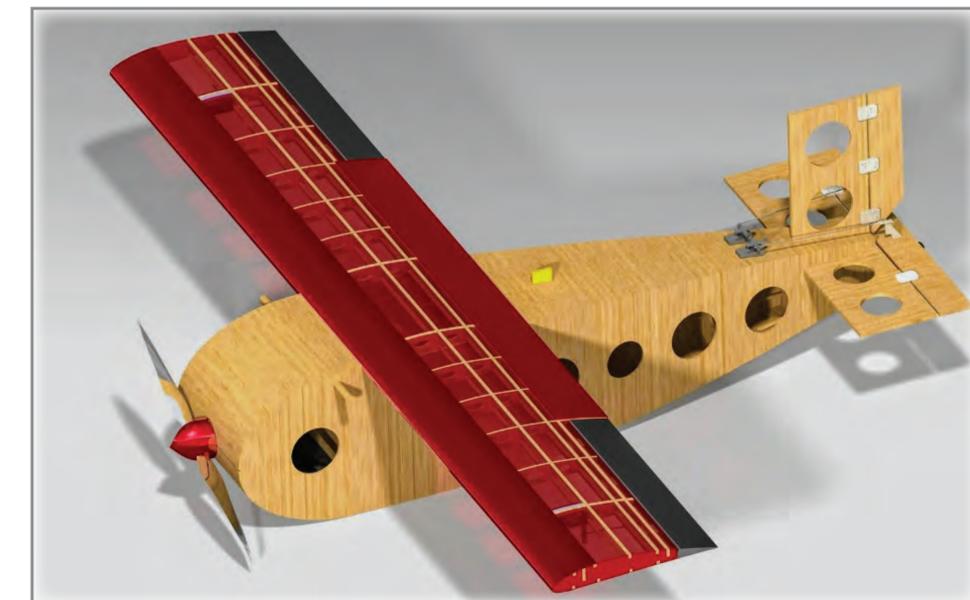


Dr. Miller

Instructor
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Team 15 Kamikaze

Bronze Propeller 2020



SECOND HERE!

02

AFTER COMPLETION OF DETAILED DESIGN, THE FOLLOWING SPECIFICATION AND PERFORMANCE PARAMETERS WERE ACHIEVED:

SECOND SECTION

DETAILED DESIGN REVIEW

WINGSPAN:	36 INCHES
CHORD:	6 INCHES
ASPECT RATIO:	6
WING AIRFOIL:	NACA 4412
PROPELLER DIAMETER:	8 INCHES
MOTOR SPECS:	900 Kv
BATTERY SPECS:	11.1V - 3S - 800 mAh
MAXIMUM PAYLOAD:	0.25 LBS
EMPTY WEIGHT:	1.2 LBS
MINIMUM TURN RADIUS:	30 FT
LOAD FACTOR:	+ 6.8 G / - 2.3 G

PERFORMANCE PARAMETER REVIEW

C_{Lmax} :	1.1
L/D_{max} :	11.7
C_{D0} :	0.036
ENDURANCE:	180 SEC
MAXIMUM SPEED:	83 FT/S
STALL SPEED:	30 FT/S
STATIC MARGIN:	12%

SPECIAL FEATURES

LIGHTWEIGHT DESIGN

STABLE & ACCURATE PAYLOAD RELEASE

STREAMLINE - FUSELAGE DESIGN

THIRD HERE!

03

“Simplicity and efficiency will pave the way to victory.”

THIRD SECTION

WIRING LAYOUT DRAWING

