



APRIL 15, 2021

KASHMIR WORLD FOUNDATION

EAGLE RAY DESIGN CHALLENGE

ABOUT THE CHALLENGE

WWW.KASHMIRWORLDFOUNDATION.ORG

The Mission

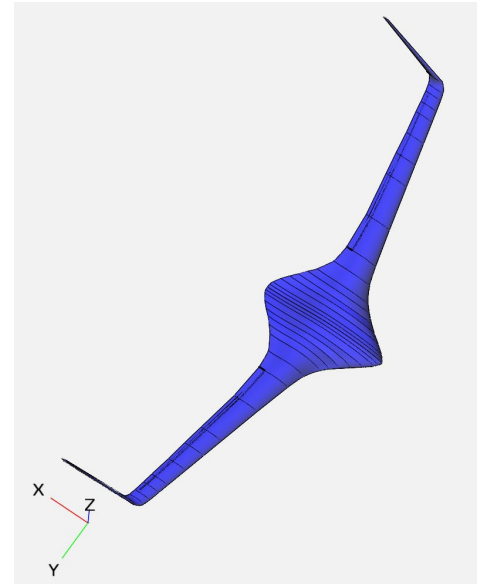
Kashmir World Foundation (KwF) challenges students, academics, and professionals around the world to improve on the Mark Page (Chief Scientist at DZYNE Technologies) BWB Eagle Ray design, and in so doing help KwF create an aircraft that is better suited to the mission of protecting endangered species specifically Snow Leopards throughout the Himalayas.

The Challenge

The challenge is to improve on the planform and airfoil stack, increasing endurance while maintaining stability and maneuverability from sea level to 6,000 meters altitude. Each proposed change must include a statement of why the change is suggested and how it is expected to improve performance and enable greater mission capability along with calculations, simulations and/or charts.

The Award

All challenge participants receive access to the current and final design, and those who succeed in improving Eagle Ray have their name appear on the official list of contributors and their logo emblazoned on every Eagle Ray aircraft.



TIMELINE

April 15 - June 1: Open Entry

June 30: Draft Report for Review
July 15: Draft Review & Feedback

September 1 - Final Design Report
November 1 - Results Announced

December 1 - Report Published



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CHALLENGE RULES

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The Challengers

Challengers can work independently or in teams. Challengers can attempt to make improvements to the overall planform and airfoil stack, or they can concentrate on special features including elevons, trim tabs, tip rudders, or other control surfaces or even control linkages. Once you have entered the challenge, not only does that qualify you to participate in the challenge, it gives you access to some of the worlds greatest aerospace engineers, electrical engineers, scientists, and futurists. You can participate in webinars, ask questions via email, and even chat with specialists during open hours.

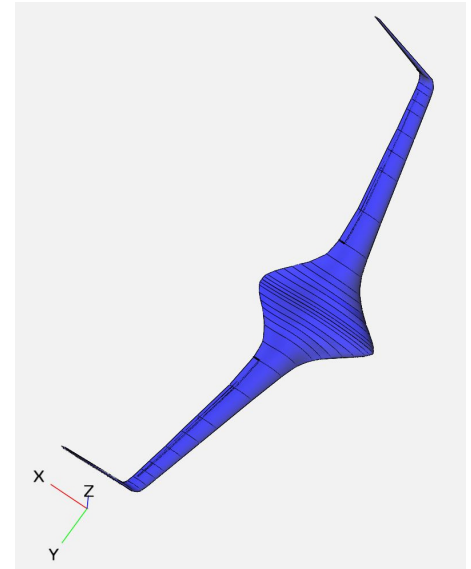
Airfoil Stack & Planform

You will receive the airfoil stack in a spreadsheet and/or OpenVSP format, once you have officially entered the challenge.

Design Report Format & Submission

Changes to planform or airfoil stack can be submitted in spreadsheet or OpenVSP format emailed to info@kashmirworldfoundation.org.

Every submission will be reviewed by the Eagle Ray Advisors. Those that are promising will be forwarded to Mark Page and Princess Aliyah for evaluation. Winners of contribution changes will be notified via email and posted to the Eagle Ray web page.



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