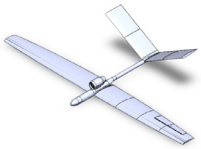
Albatross



3D-PRINTED FIXED-WING AIRCRAFT COMPETITION (C-3DPAC)

The California 3D Printed Aircraft Competition (C-3DPAC) challenges teams to design, build, and fly a remote-controlled aircraft with significant 3D-printed components. Emphasizing innovation, aerodynamics, and additive manufacturing, teams must optimize weight, strength, and design to excel within competition constraints. Aircraft undergo design reviews, flight tests, and performance evaluations, including the core trial of longest flight time. The competition fosters engineering skills, teamwork, and practical application of additive manufacturing and design.

MEMBERS

Gilbert Trinh
Mitchell Prokey
James Cook
Ameko Birdsall
Paul Kauvaka
Anthony Anderson
Wyatt Charette
Dario Bautista
Natalie Windsor
Rina Alkoblan

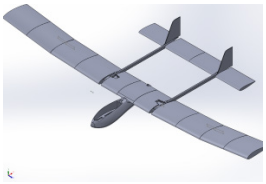
ADVISORS

Dr. Charles Norris

SDSU
Dr. Scott Shaffar
Dr. Roni Goldshmid
Dr. Joseph Katz

SDSU College of Engineering Mechanical Engineering

Cloud 9



3D-PRINTED FIXED-WING AIRCRAFT COMPETITION (C-3DPAC)

The California 3D Printed Aircraft Competition (C-3DPAC) challenges teams to design, build, and fly a remote-controlled aircraft with significant 3D-printed components. Emphasizing innovation, aerodynamics, and additive manufacturing, teams must optimize weight, strength, and design to excel within competition constraints. Aircraft undergo design reviews, flight tests, and performance evaluations, including the core trial of longest flight time. The competition fosters engineering skills, teamwork, and practical application of additive manufacturing and design.

MEMBERS

Joshua Cain
Alan Brockmeyer
Jack Wise
Kole Christoff
Corbin Paull
Andrew McGlynn
David Maturin
Hayden Schmehl
Brendan Scharmann

ADVISORS

Dr. Charles Norris

SDSU
Dr. Scott Shaffar
Dr. Geoffrey Butler

SDSU College of Engineering Mechanical Engineering

Glide or Die

3D-PRINTED FIXED-WING AIRCRAFT COMPETITION (C-3DPAC)

The California 3D Printed Aircraft Competition (C-3DPAC) challenges teams to design, build, and fly a remote-controlled aircraft with significant 3D printed components. Emphasizing innovation, aerodynamics, and additive manufacturing, teams must optimize weight, strength, and design to excel within competition constraints. Aircraft undergo design reviews, flight tests, and performance evaluations, including the core trial of longest flight time. The competition fosters engineering skills, teamwork, and practical application of additive manufacturing and design.

MEMBERS

Jasmine Timnak
Noah Graf
Jose Lopez
Andy Nguyen
Anand Berg
Brenna Rao
Corey Mcinvale
Brennan Fogleman
Cole Bergren
Joshua Toledo

ADVISORS

Dr. Charles Norris

SDSU
Dr. Scott Shaffar
Dr. Roni Goldshmid
Dr. Joseph Katz

SDSU College of Engineering Mechanical Engineering

Motorsport Aerodynamic Solutions

RACE CAR AERO WING

This project focused on improving the aerodynamic performance of Ron Fletcher's Revolution 500 SC race car. The team analyzed the existing rear wing geometry, developed CAD models, and performed FEM structural analysis and CFD aerodynamic simulations. Three carbon-fiber rear wings and two front splitter flaps were designed and manufactured, along with custom mounting hardware to integrate them onto the vehicle. Performance improvements were validated through on-track testing overall reducing lap times.

MEMBERS

Shaun Preston
Charlie Webb
Theodore Pierce
Jacky Liu
Sammy Parsley
Xander Vivo
Sofia Goulart
Lucas Wilkins
Grace Martin

ADVISORS

SDSU
Dr. Scott Shaffar
Dr. Roni Goldshmid
Dr. Joseph Katz

Osprey

3D-PRINTED FIXED-WING AIRCRAFT COMPETITION (C-3DPAC)

The California State University 3D Printed Aircraft Competition invites teams to design, build, and fly an aircraft fabricated with 3D-printed parts. The competition focuses on innovation and aerodynamics. Teams must balance weight, strength, and design elements while maximizing performance. Aircraft are judged via design reviews and performance evaluations, with the challenge being to achieve the longest flight time. Participants will develop their engineering knowledge, teamwork skills, and gain hands-on experience in additive manufacturing and aircraft design.

MEMBERS

Caitlin Kuehn
James Romero
Loc Nguyen
Max Fromkin
Adam Asuelo
Hussein Aljebur
Iris Kashirsky
Shezreen Kahn
Saya Kimura
Joshua Laurain

ADVISORS

Dr. Charles Norris

SDSU
Dr. Scott Shaffar
Dr. Roni Goldshmid
Dr. Joseph Katz