

Project Name: Airplane Model

Subject: Airplane Model

Team 4 (Spitfire)

Angelo Dolina: Airplane Model PPT, Team Project Presentation and Previewing

Aung Thet Oo: Airplane Model PPT and Viable Project, Team Project Presentation and Previewing

Vasilije Andric: Viable Project, Team Project Presentation and Previewing

Calin Illisei: Take photos and videos for our presentation, Team Project Presentation and Previewing

PRODUCT CONCEPT

- ▶ Use cheaper materials
- ▶ Warranty
- ▶ Include different functions
 - * take photos and videos
 - * being able to connect to other devices
 - *have GPS

Materials

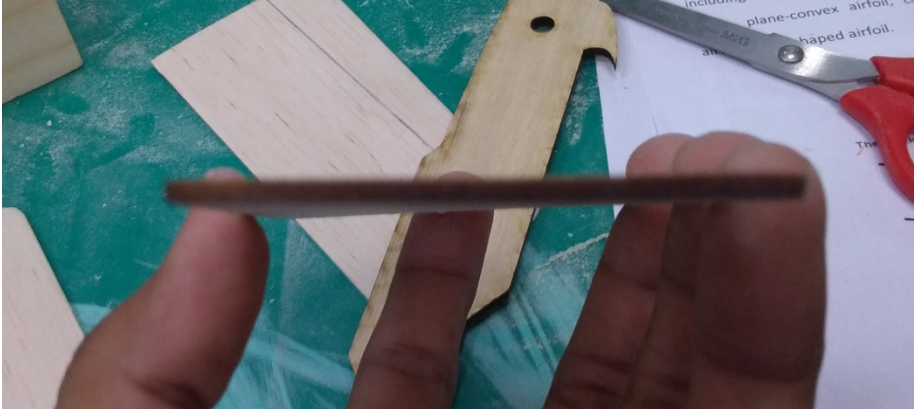
- ▶ Glue
- ▶ Scissors
- ▶ Double-sided tape
- ▶ Sand Paper
- ▶ Wooden materials
- ▶ Color Pencils
- ▶ Cutter
- ▶ Ball Bearing

Design/ Decoration



Steps

Step 1: Polish the wings into an plane-convex airfoil shape.



Typical Airfoil

Steps

Step 2: Attach the parts of the horizontal tail together.



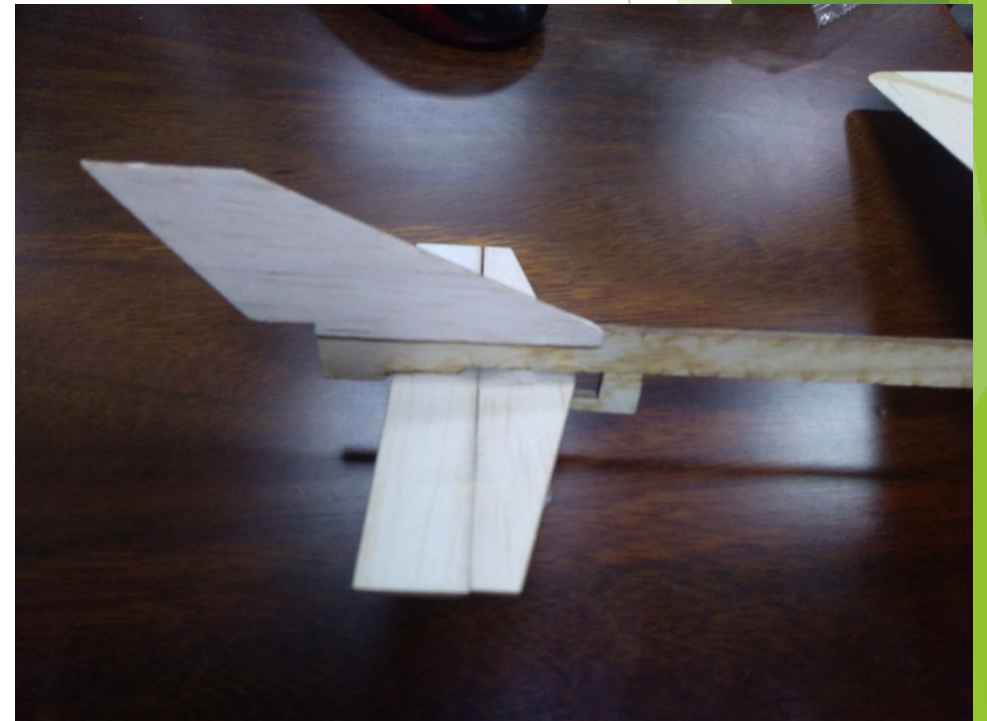
Steps

Step 3: Attach the horizontal tail to the airplane.



Steps

Step 4: Attach the vertical tail to the airplane.



Steps

Step 5: Attach the wings together using super glue.



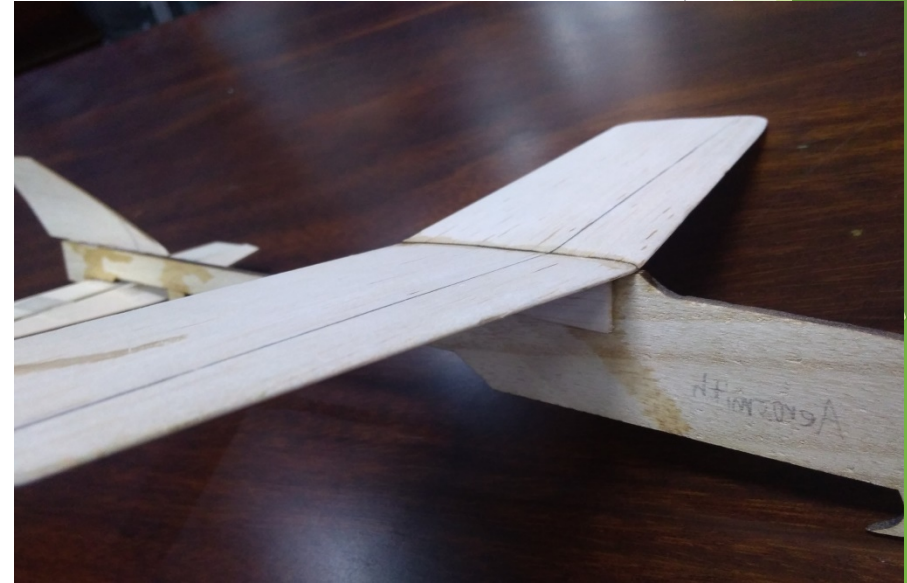
Steps

Step 6: Attach the wing platform to the airplane.



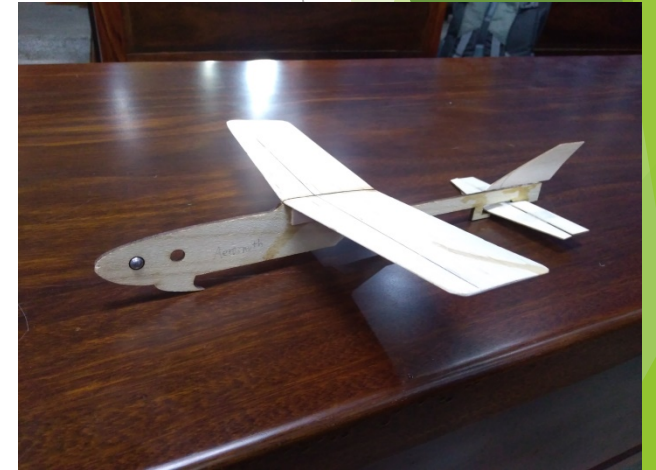
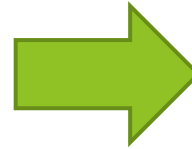
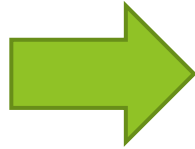
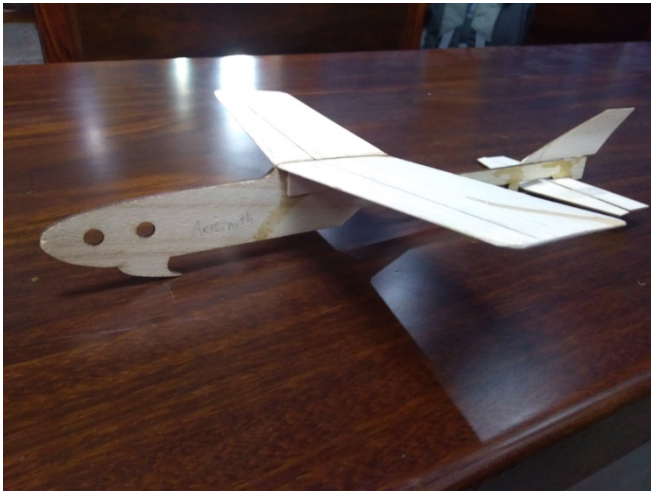
Steps

Step 7: Attach the wings to the airplane.



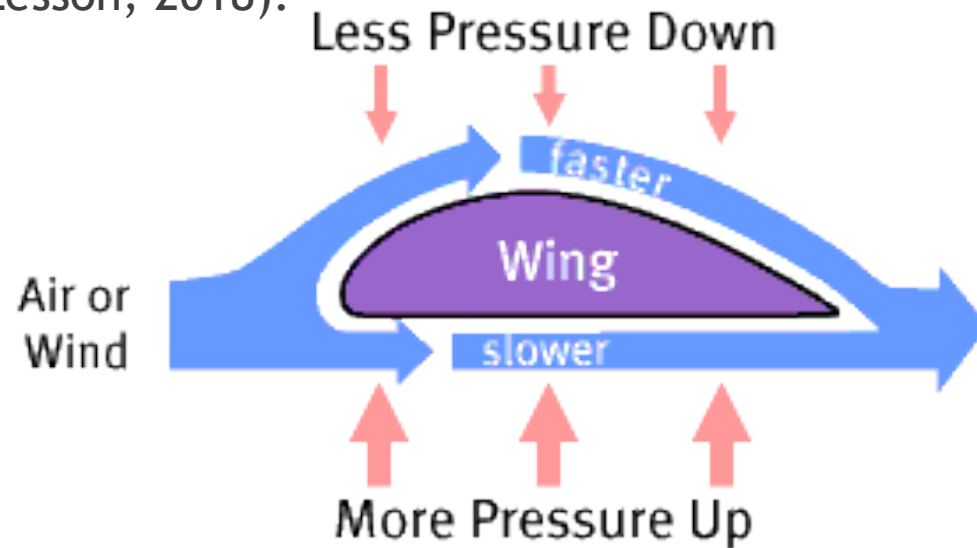
Steps

Step 8: Attach ball bearing to the airplane.



Scientific Principle: Bernoulli's Principle

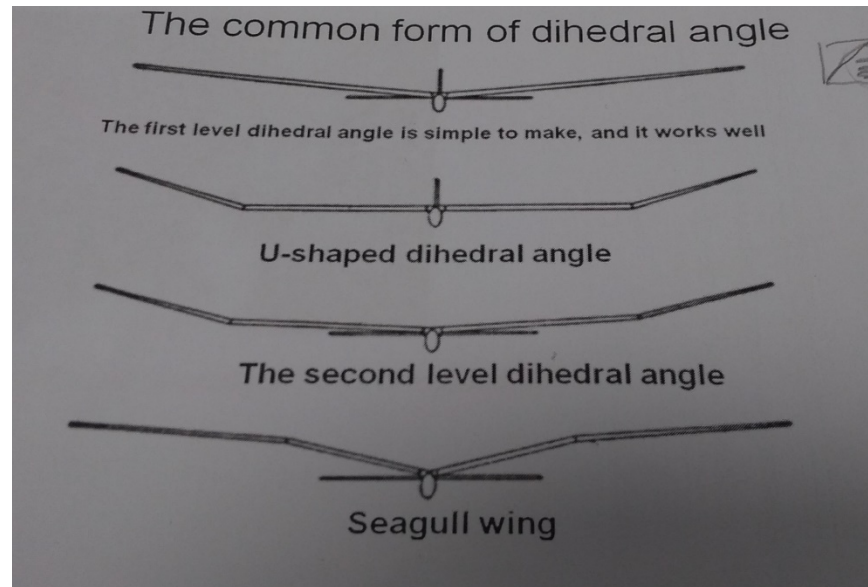
- Bernoulli's principle helps explain that an aircraft can achieve lift because of the shape of its wings. They are shaped so that that air flows faster over the top of the wing and slower underneath. Fast moving air equals low air pressure while slow moving air equals high air pressure. The high air pressure underneath the wings will therefore push the aircraft up through the lower air pressure (Flight Lesson, 2018).



The problem and solution



Innovation



Front view
of airplane



Potential Clients

- ▶ Tourists
- ▶ Governments
- ▶ Science Explorers

UVP (Tourists/ Science explorers)

- ▶ A smaller portable plane
- ▶ A longer-lasting battery life
- ▶ Can view 360 degrees.
- ▶ One-year warranty
- ▶ Extra Free Offer- a backpack, a tent and a binocular.

UVP(Government)

- ▶ Bulletproof
- ▶ Has a higher security system than others.
- ▶ TWO-year warranty.
- ▶ Extra Free Offer- another separate airplane camera

References

- ▶ *Flight Lesson*. (2018, December 20). Retrieved September 28, 2019, from Science Kids: <http://www.sciencekids.co.nz/lessonplans/flight/flightintroduction.html>

Thank you very much for your attention!