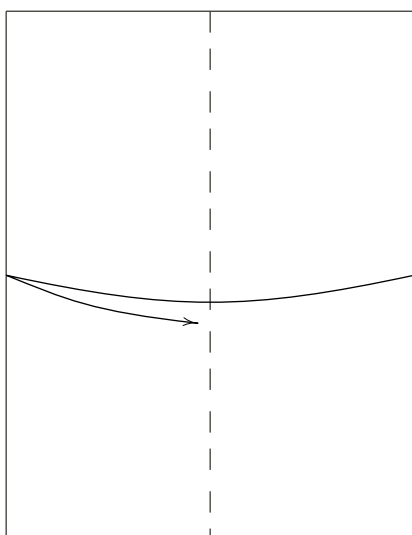


Raptor

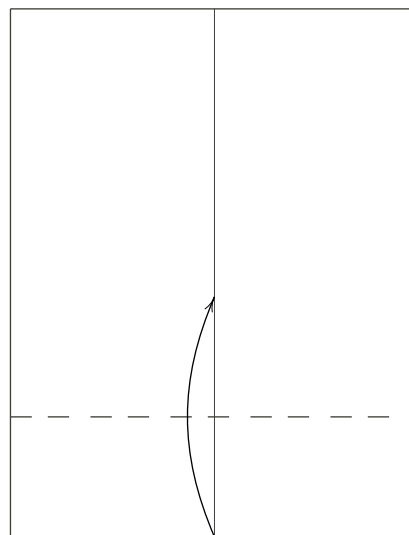
Designed by Bradley A. Minch

Diagrams © 2005 by Bradley A. Minch

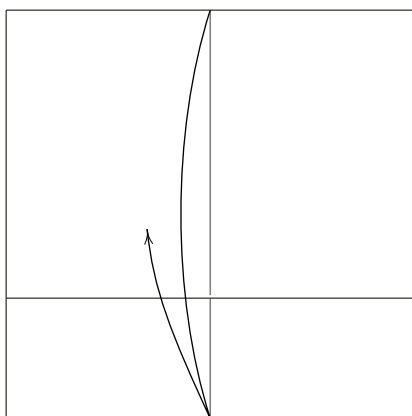
This paper airplane is somewhat reminiscent of an F-22 Raptor, whence its name. In essence, it is a combination of the base used by Michael LaFosse in his F-14 Tomcat model and Thay Yang's fuselage folding technique. It actually flies quite well with a slight upward curl of the back of the horizontal stabilizers. To fold from a square sheet of origami paper, begin at step 3, white side up.



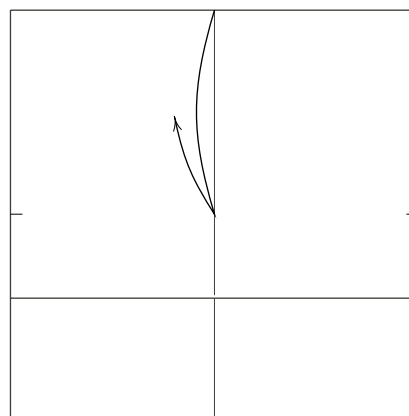
1. Fold one long edge of a sheet of letter sized paper to the other edge and unfold.



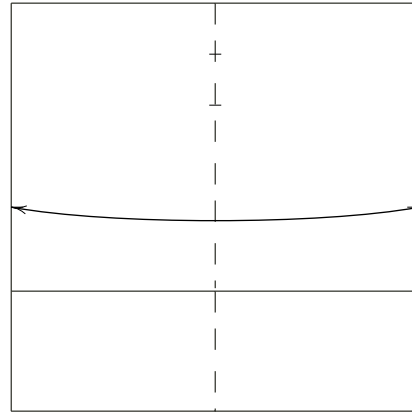
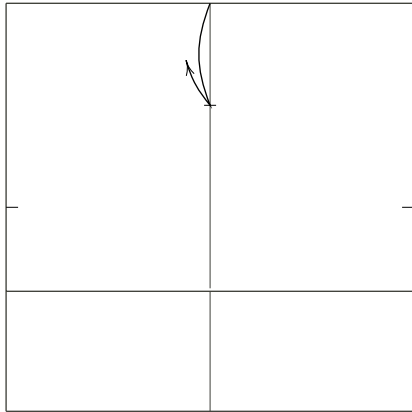
2. Fold a strip of paper up from the bottom to form a square.



3. Fold the top edge down to the bottom, mark the halfway point on each side, and unfold.

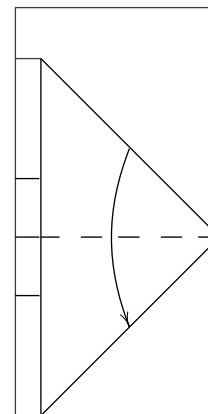
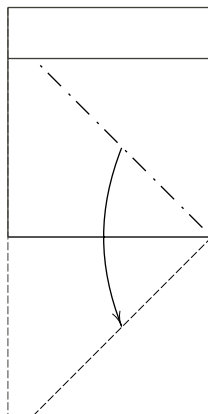
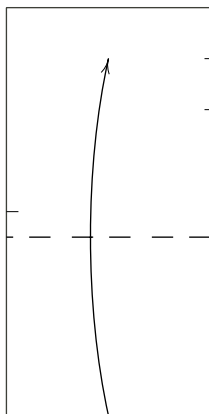


4. Fold the top edge down to the middle, mark a quarter of the way down the center, and unfold.



5. Fold the top edge down to the quarter point, mark an eighth of the way down, and unfold.

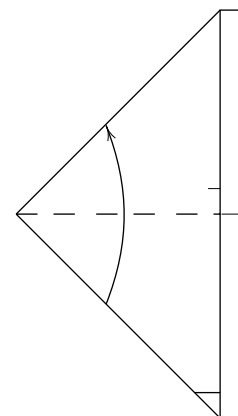
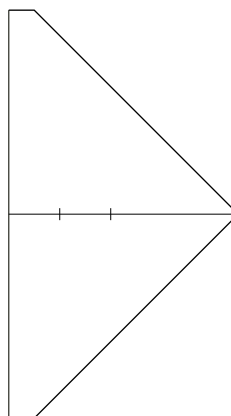
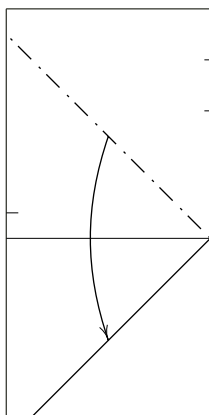
6. Valley fold the right edge of the paper to the left edge.



7. Fold the bottom edge up to the eighth point.

8. Squash fold the top layer of paper down.

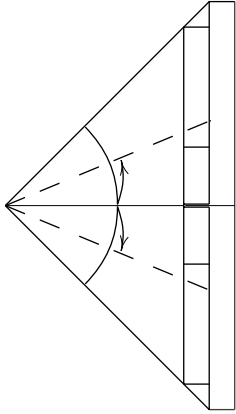
9. Valley fold the top layer of paper down.



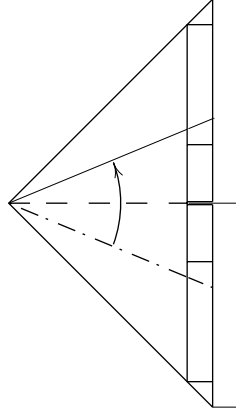
10. Squash fold the other layer of paper down.

11. Turn the model over.

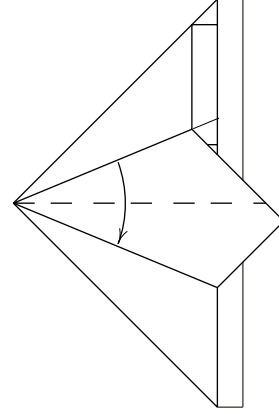
12. Valley fold the top layer of paper up.



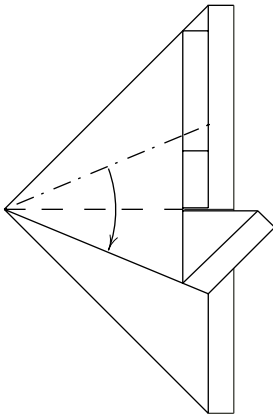
13. Fold the top layer on each side to the center and unfold.



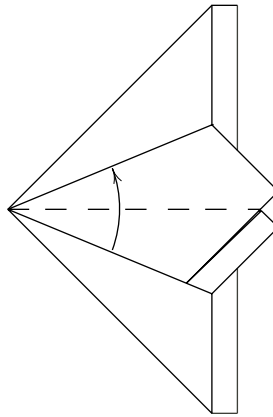
14. Squash fold the top layer of paper up.



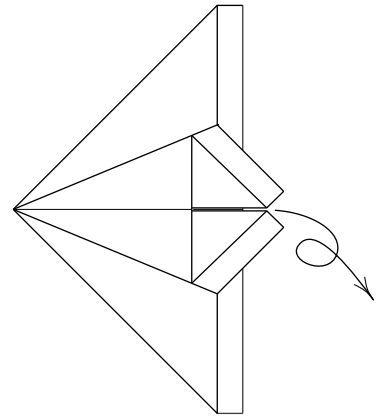
15. Valley fold the top layer of paper down.



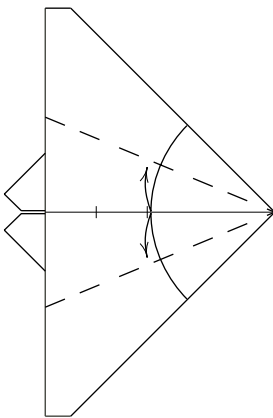
16. Squash fold the top layer of paper down.



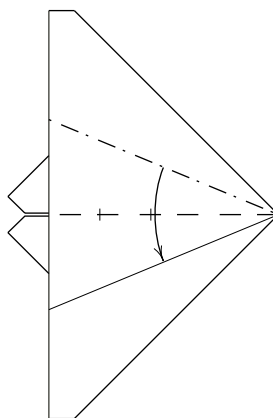
17. Valley fold the top layer of paper up.



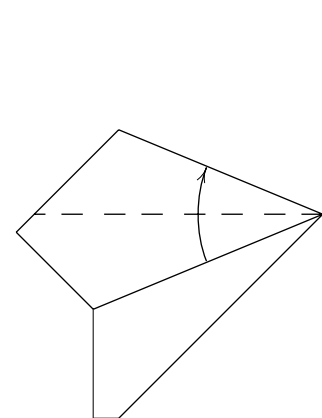
18. Turn the model over.



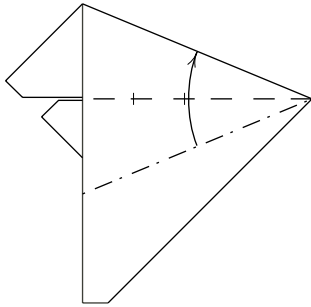
19. Fold the top layer on each side to the center and unfold.



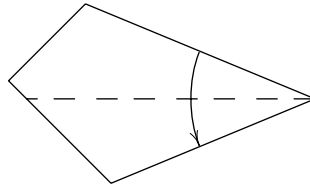
20. Squash fold the top layer of paper down.



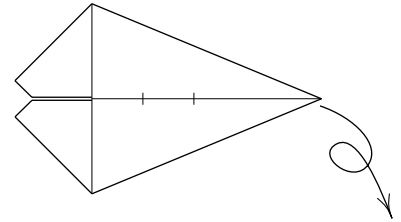
21. Valley fold the top layer of paper up.



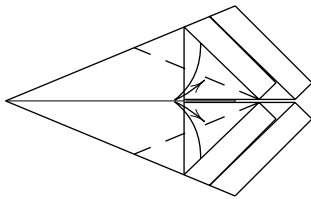
22. Squash fold the top layer of paper up.



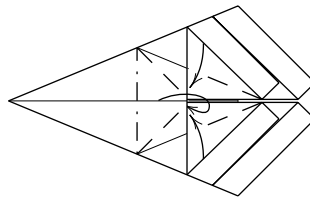
23. Valley fold the top layer of paper down.



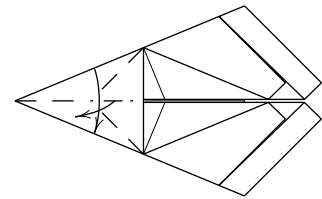
24. Turn the model over.



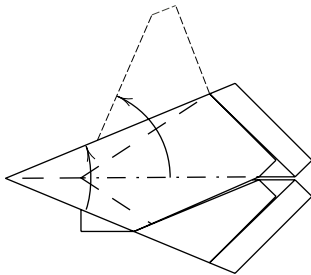
25. Fold the top layer on each side to the center and unfold.



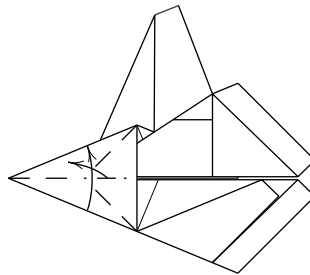
26. Petal fold, but make the small central flap go inside.



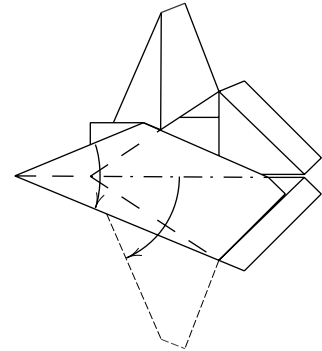
27. Fold down the top layer of paper.



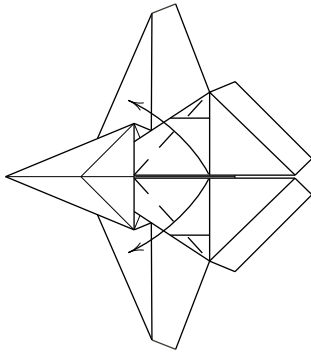
28. Fold out the left wing.



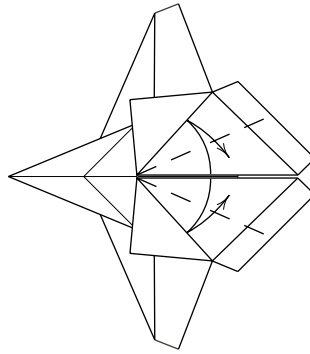
29. Fold up the top layer of paper.



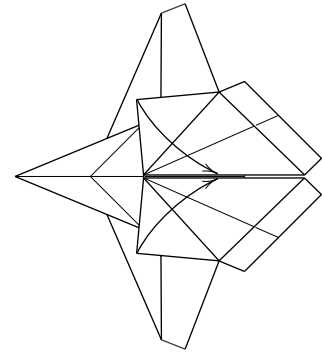
30. Fold out the right wing.



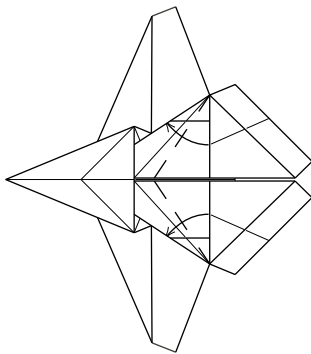
31. Fold up the top layer of paper on each side.



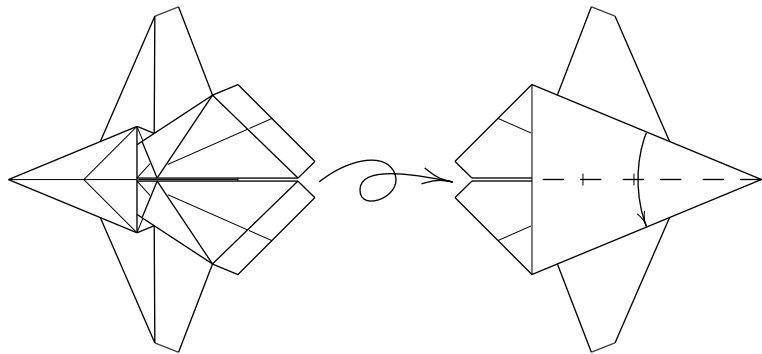
32. Valley fold on each side and unfold.



33. Fold back the top layer of paper on each side.

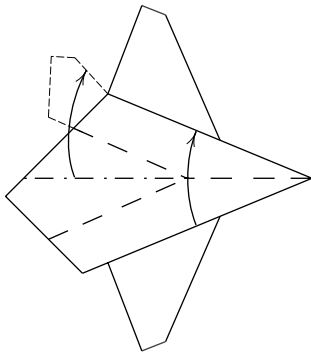


34. Valley fold and tuck each of the top flaps into a pocket.

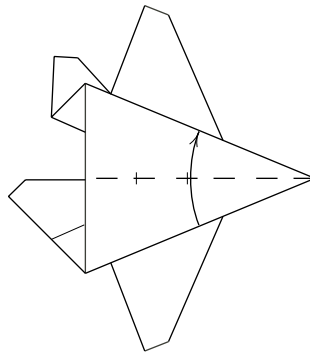


35. Turn the model over.

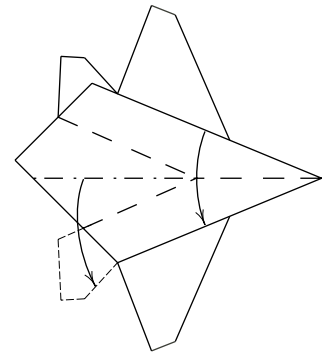
36. Valley fold the top layer of paper down.



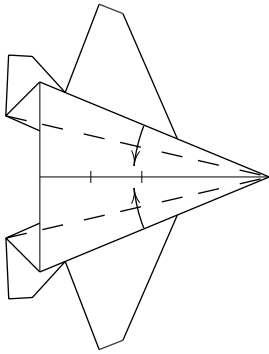
37. Fold out the left horizontal stabilizer.



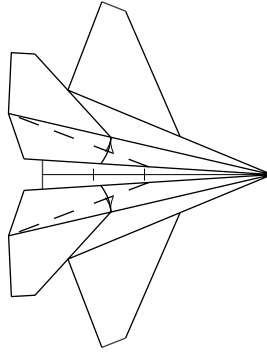
38. Valley fold the top layer of paper up.



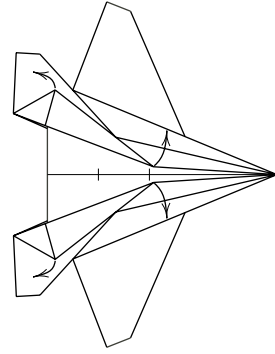
39. Fold out the right horizontal stabilizer.



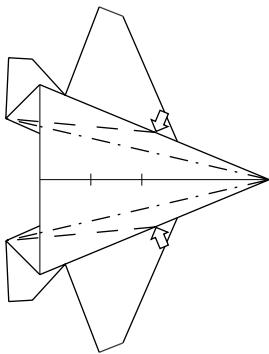
40. Valley fold the top layer on each side toward the center.



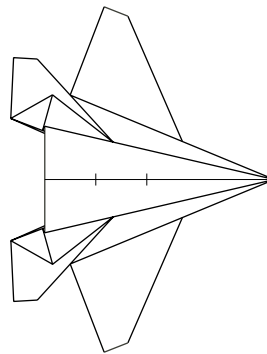
41. Valley fold back a portion of each of the top layers.



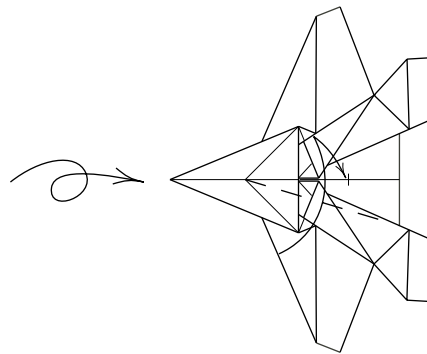
42. Unfold the previous two steps.



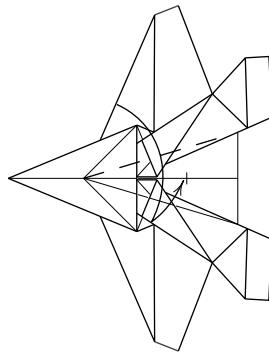
43. Sink each side on the existing creases.



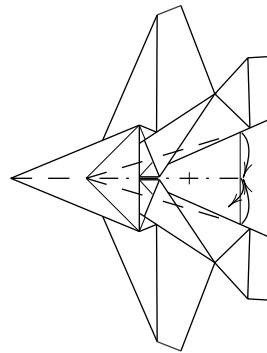
44. Turn the model over.



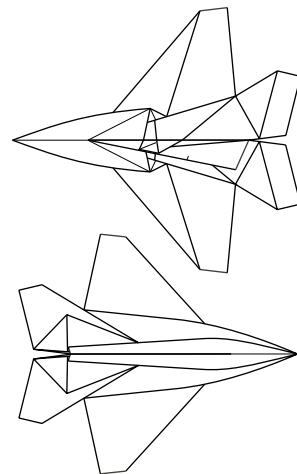
45. Valley fold through all the layers of paper and unfold.



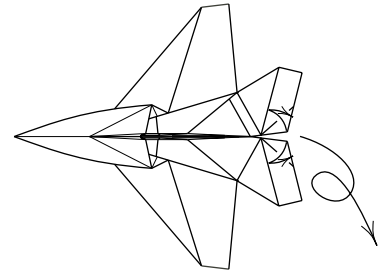
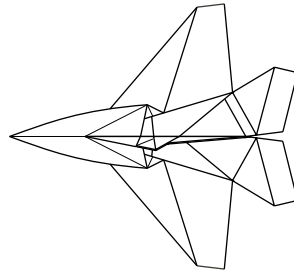
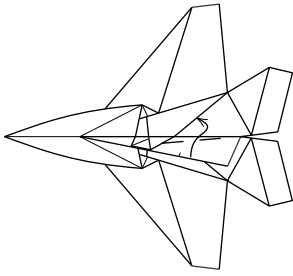
46. Valley fold through all the layers of paper and unfold.



47. Reverse fold the rear section of the fuselage.



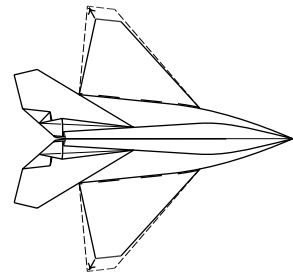
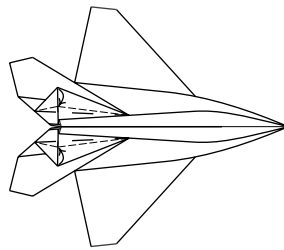
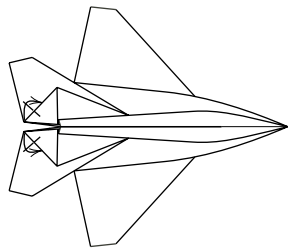
48. The model will now be slightly three dimensional.



49. Fold part of the central flap over and tuck it into a pocket.

50. Make the central ridge of paper vertical.

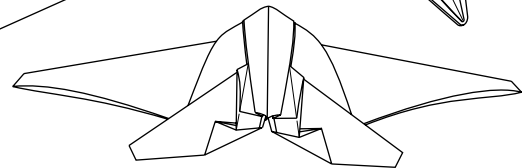
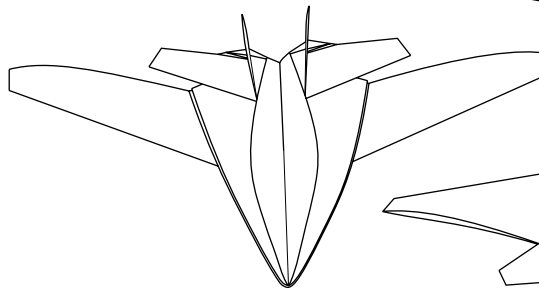
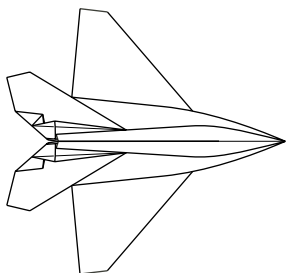
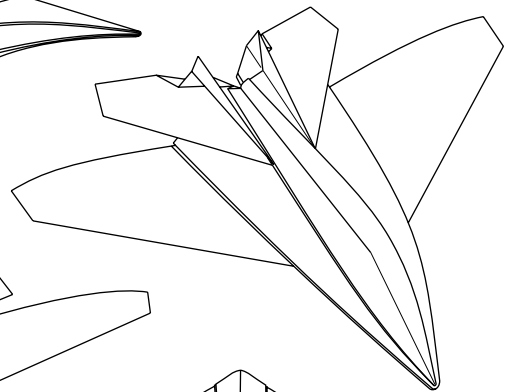
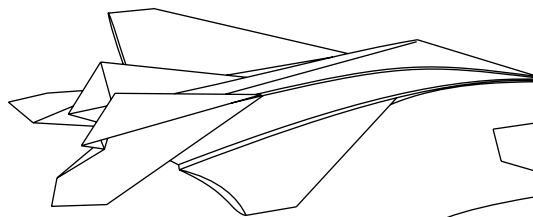
51. Valley fold the corner of each stabilizer, unfold, and turn over.



52. Reverse fold the corner of each stabilizer.

53. Fold up each of the vertical stabilizers.

54. Fold up each of the wings so that they are dihedral.



55. The finished model.