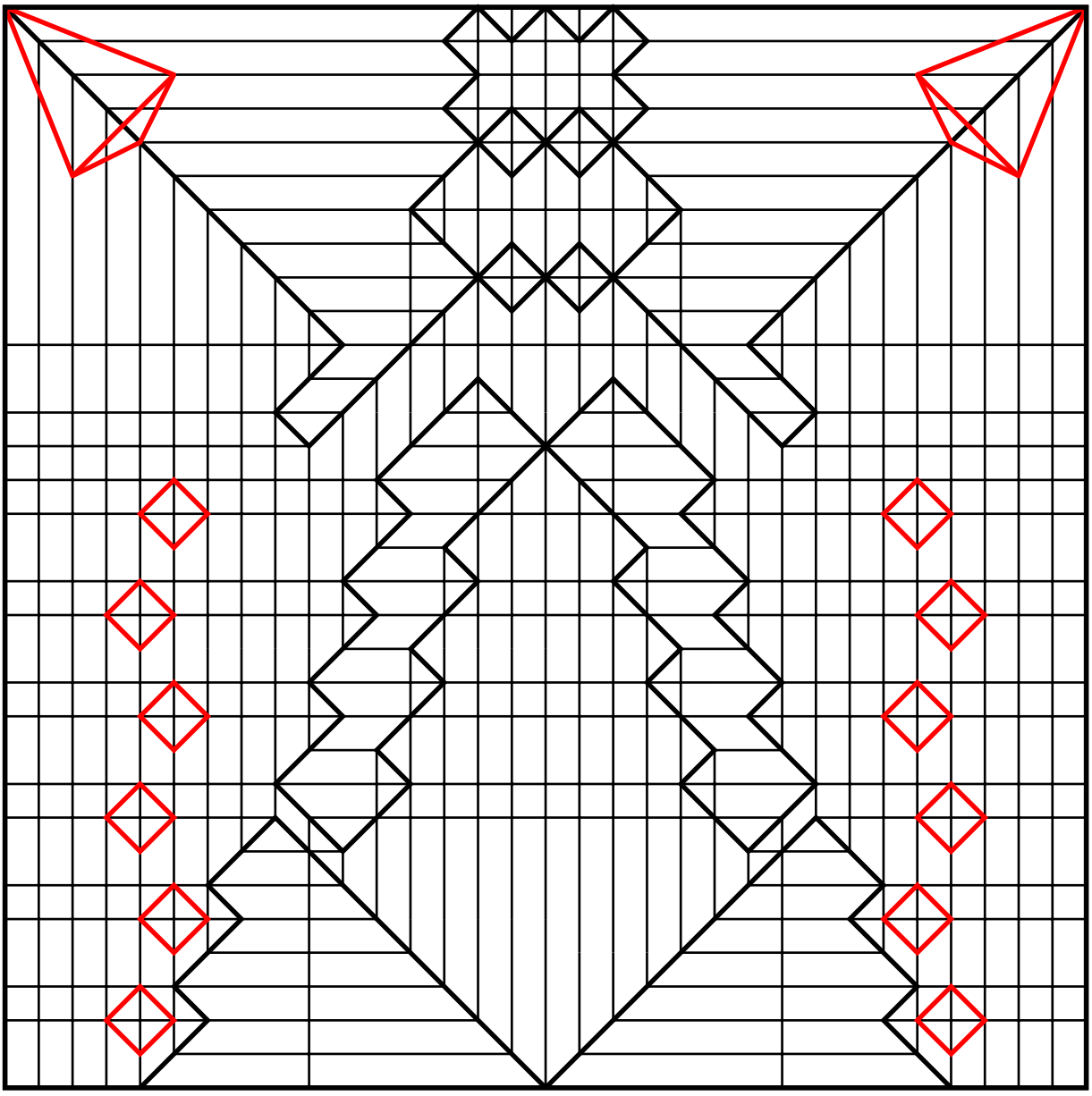
Hydralisk 2.5 by Jason Ku

Original CP: Jason Ku - http://scripts.mit.edu/~jasonku
Instructions: Gerwin Sturm - http://www.origamiaustria.at

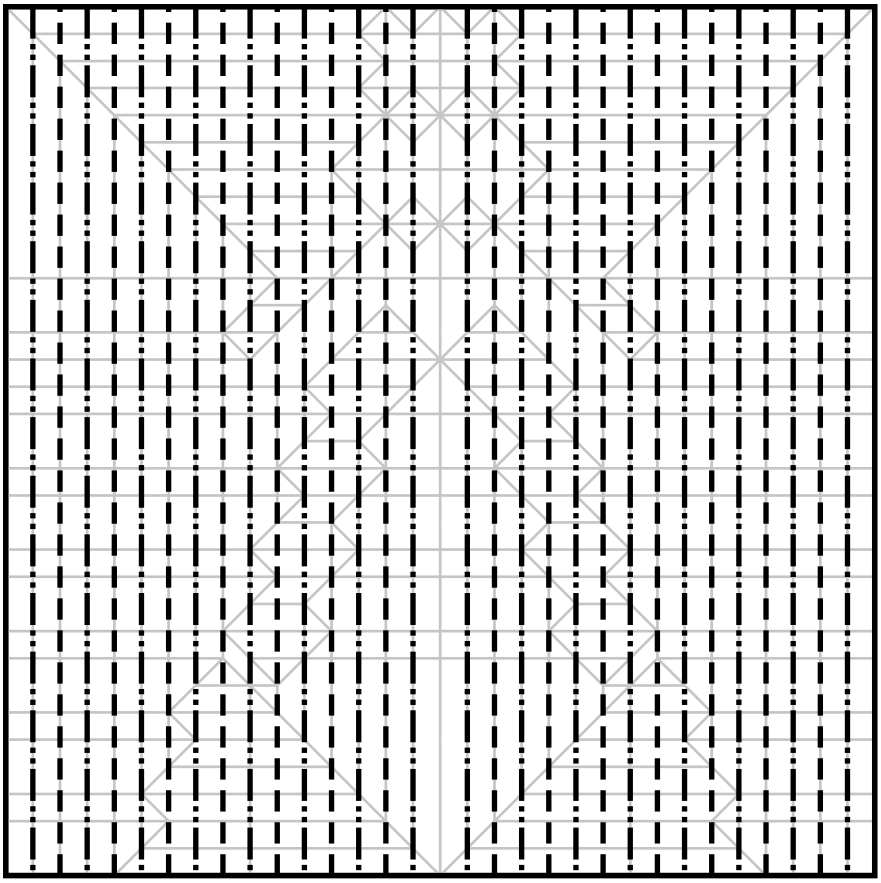
The original CP by Jason Ku can be found here:
http://scripts.mit.edu/~jasonku/index.php?id=2004&model=hydralisk1

The underlying structure to this model is the following box pleated CP based on 32x32 grid. So you will start with precreasing the 32x32 grid.
With the colour side up, the outermost creases would be mountain folds and then alternating valley-mountain-valley-etc.
With the grid done add the necessary diagonals (black) as shown in the CP below. The red creases, while not necessary for collapsing the base CP, will help you a lot later on, so add them as well.

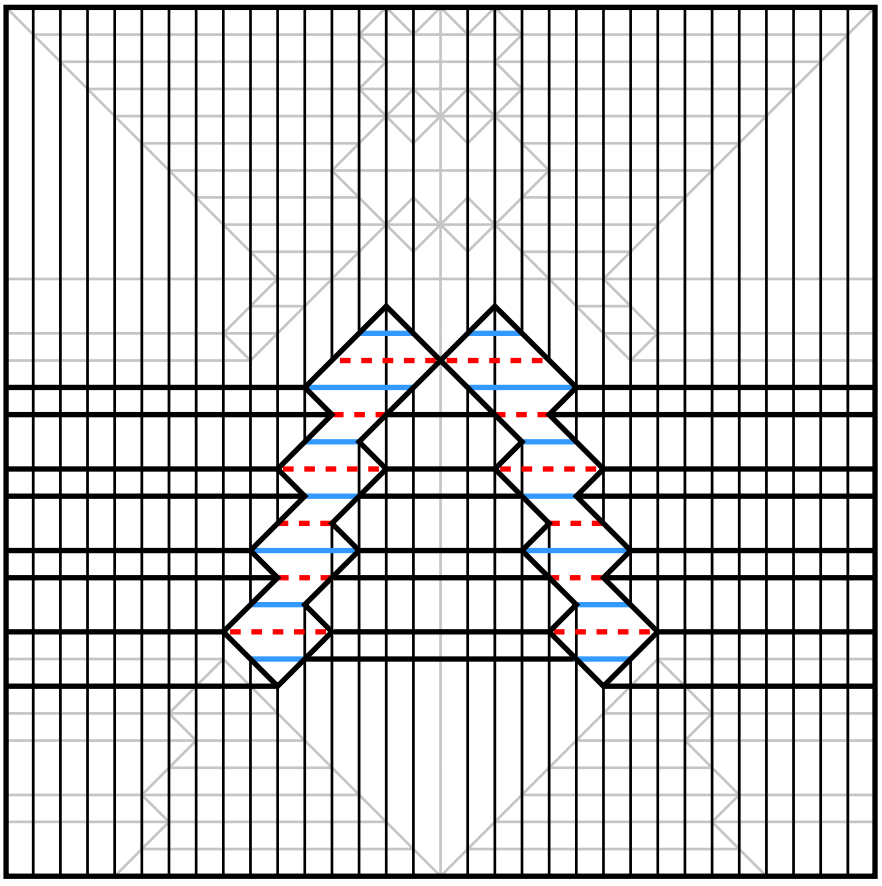


Note: Disregard the colour differences in the different photos. Some of them turned out better with flash and some turned out better without.

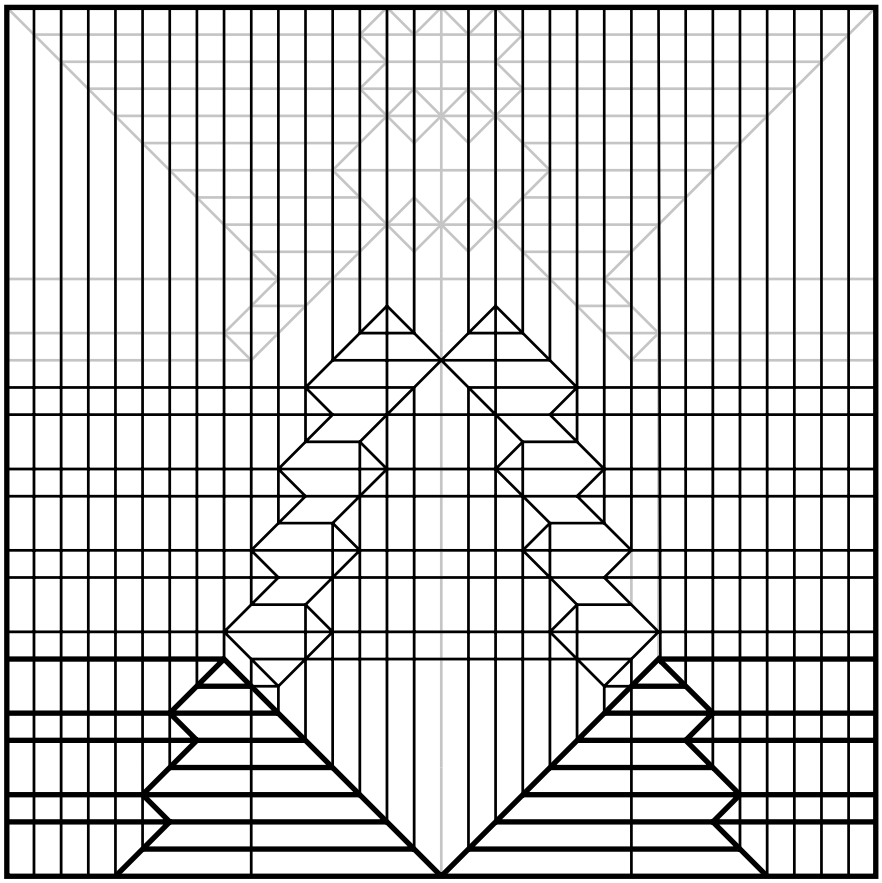
With the colour side up, pleat the whole square as shown below on the existing creases.



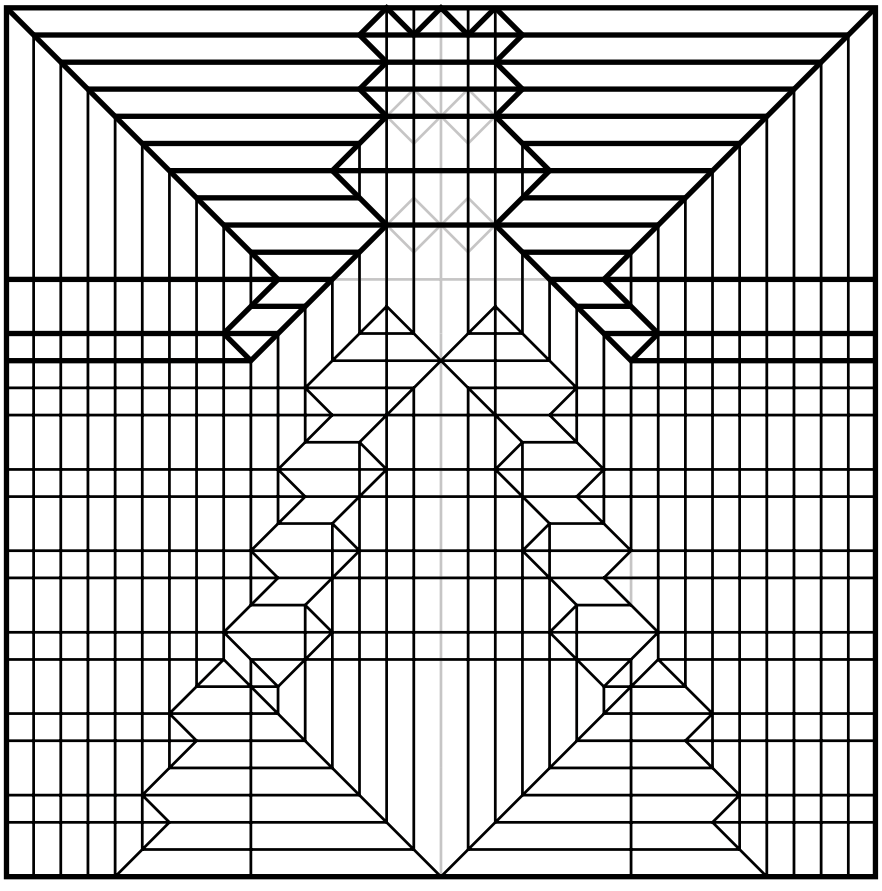
Now comes probably the most tedious part of this model. You have to introduce the structure in the middle as shown below. It's best to start at the top and work down to the bottom. You have to do both sides in parallel. Also you should note that the horizontal creases in this part (valley = red,mountain = blue, again with colour side up) are opposite from how you precreased them.
In the photo on the right you see the result of this step.



Next we're gonna form the bottom. These are basically two (irregular) Elias stretches, separating the tail and creating some more belly pleats.

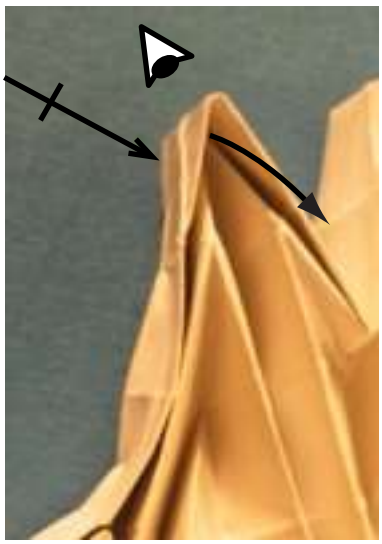


Make two more (irregular) Elias stretches on the top part and two small reverse folds at the very end.

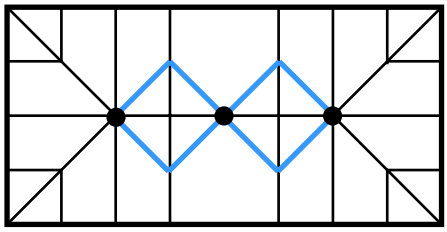


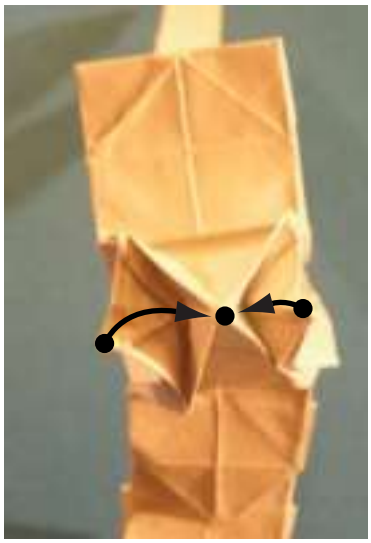
The next steps will focus on the circled area.

Carefully pull out the layers from the inside in front and on the back.

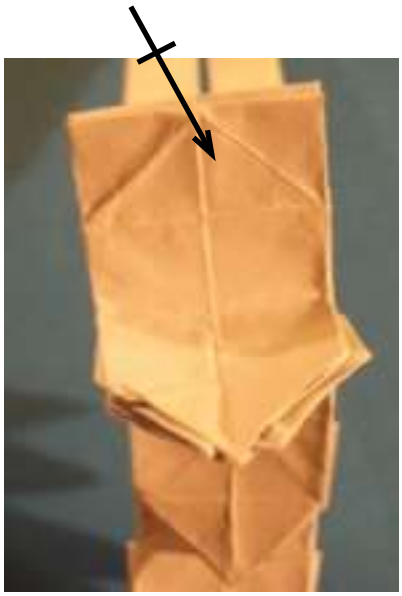


Form the blue creases as mountain folds to get three distinct points. Collapse this part flat by bringing the outer points towards the middle point.

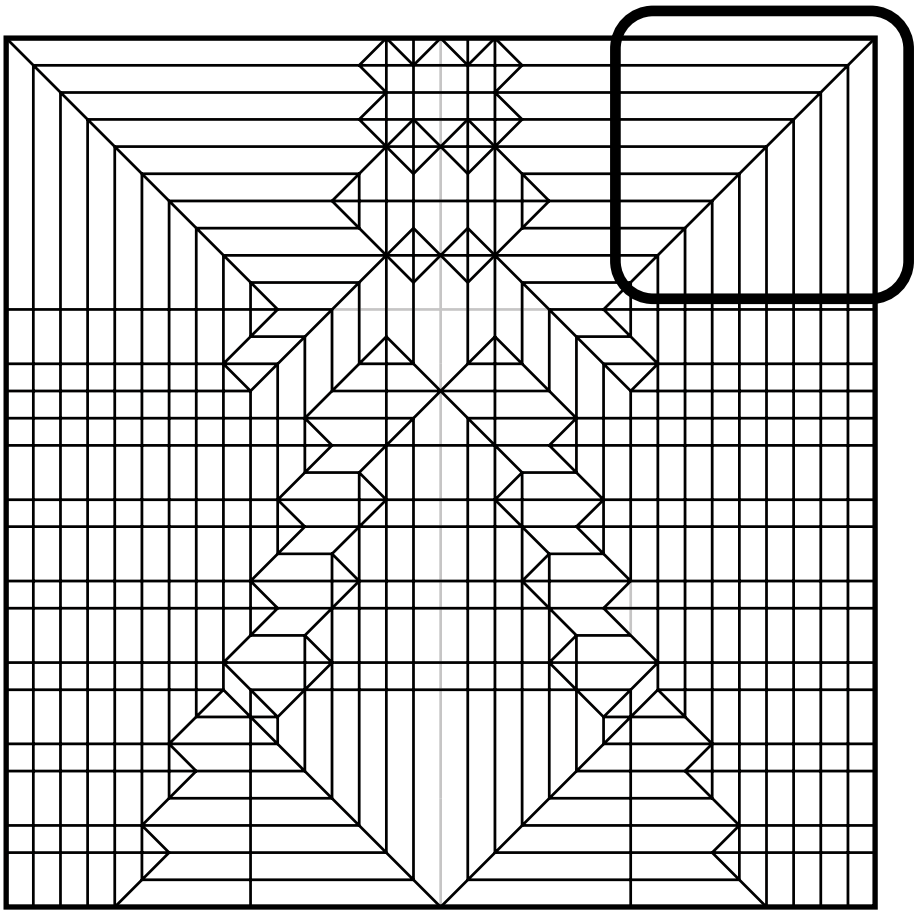


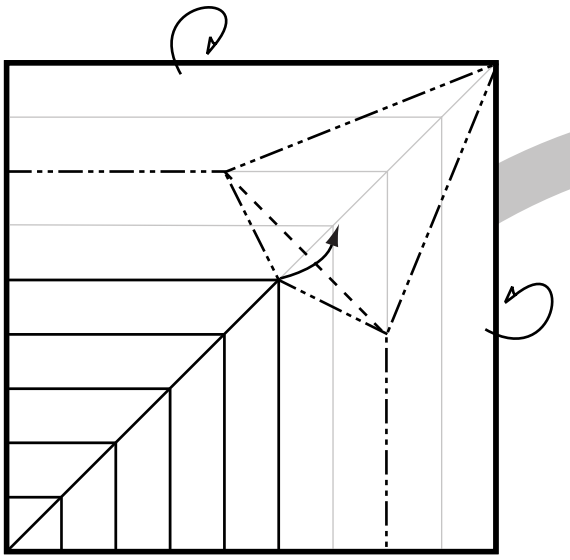


The result. Repeat those steps for the flap behind as well.

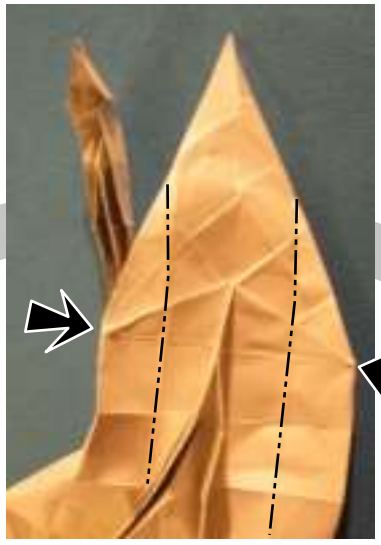


The CP so far. Next we're going to work on the arm.

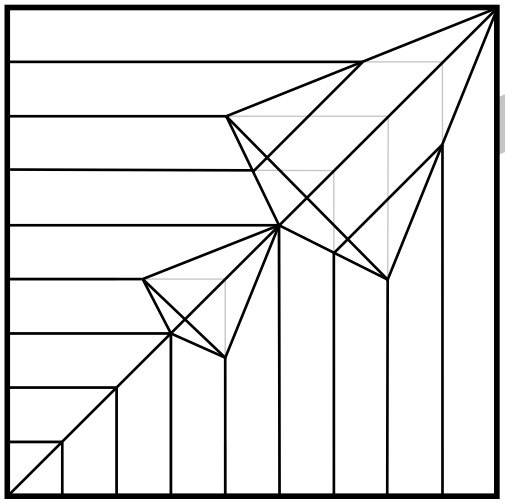




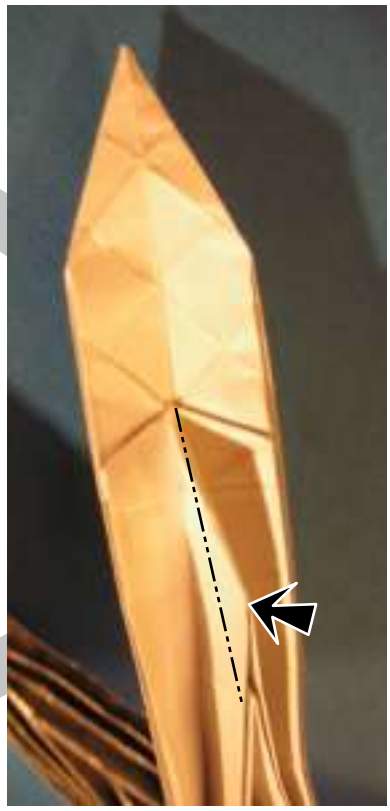
Open out the layers and form the shown folds on the existing creases.
The horizontal and vertical mountain folds won't connect to the rest of the model, just make them as far as possible to make the next step easier.



Sink the sides, following the existing creases.

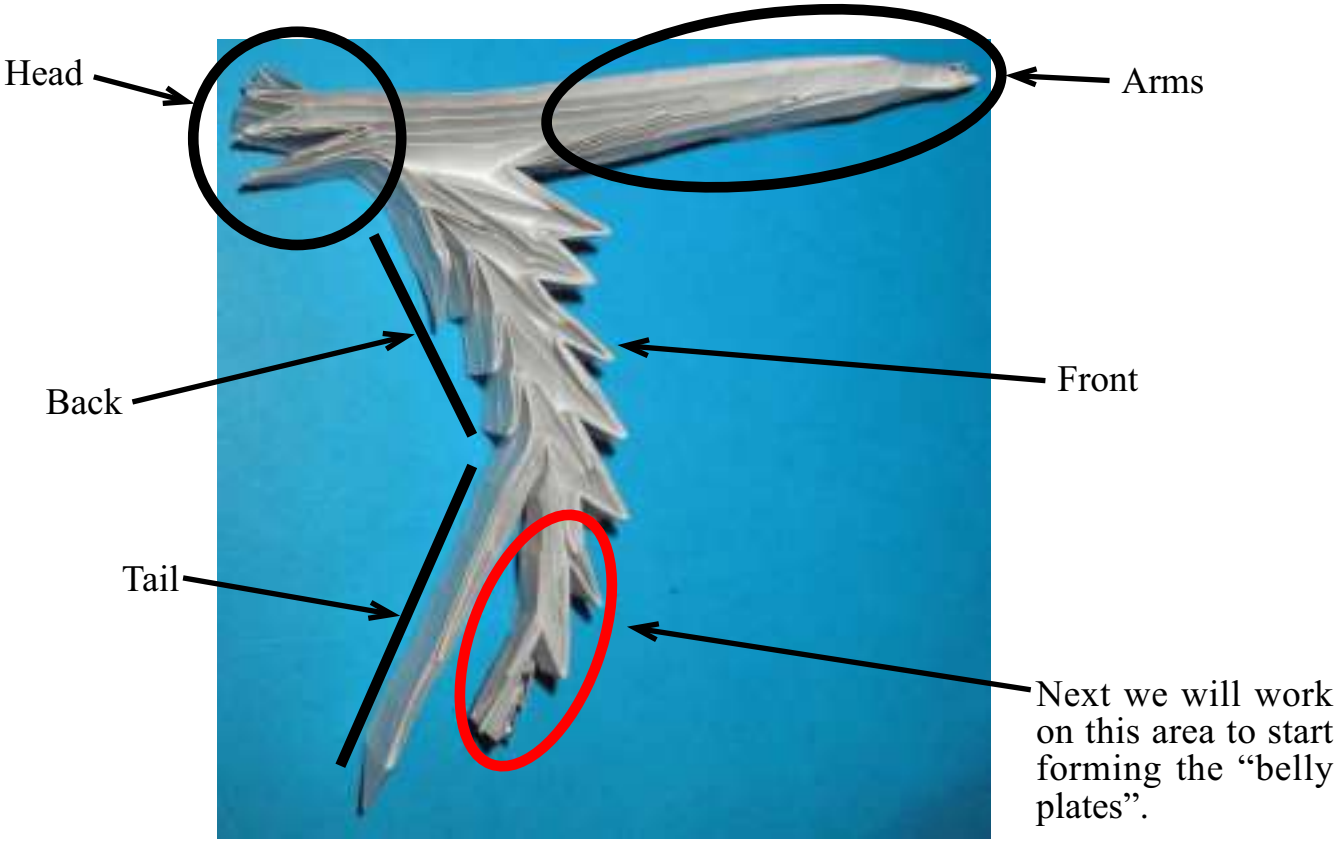


The resulting CP.
Repeat for the other arm.

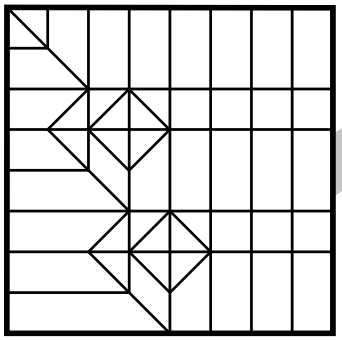


Spread squash the central flap and close the arm flap.

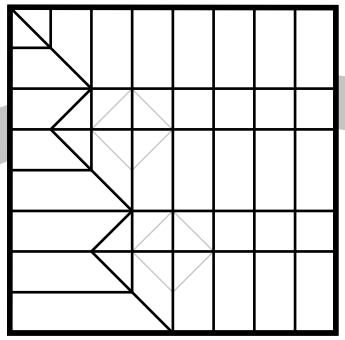
This is what you should have so far, with the position of the main body parts.



We're going to work with the lower right corner of the CP which corresponds to the area circled in red from the previous page. To make things a bit clearer I'm going to assume that you are using a separate piece of paper for just this part of the CP (based on an 8x8 grid) and it would be a good idea for you to do just that for a first attempt, before forming the belly plates on the real model.
As with all the drawings so far, the colour of the final model is on top.

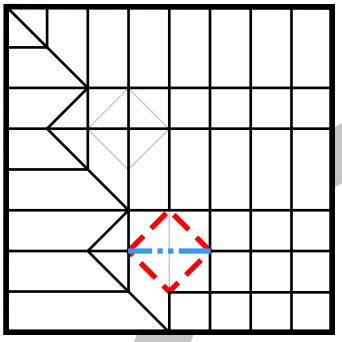


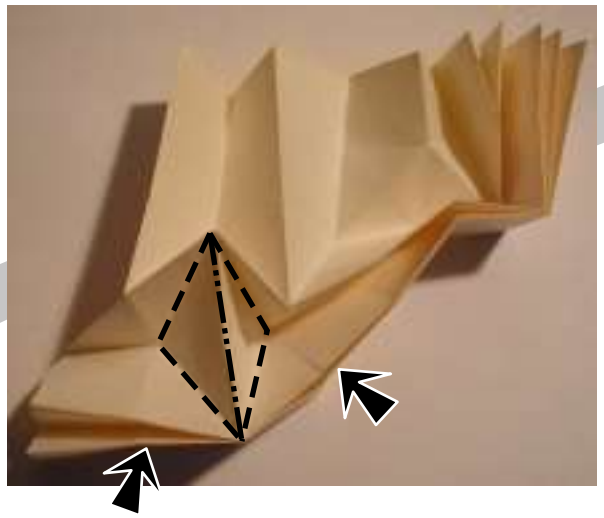
1. Fold an 8x8 grid and add the shown diagonals.



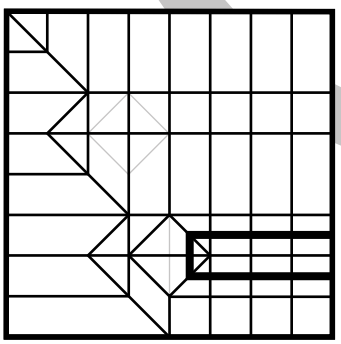
2. Collapse.

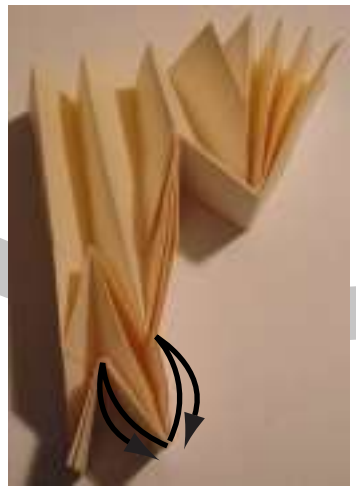
3. This is similar to the area circled in red from the previous page. Open up the layers where the precreased square is.



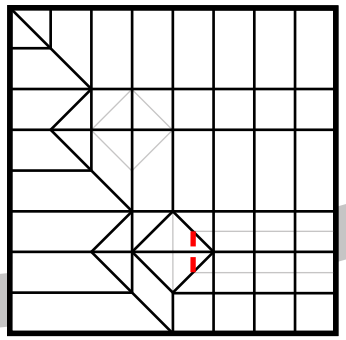


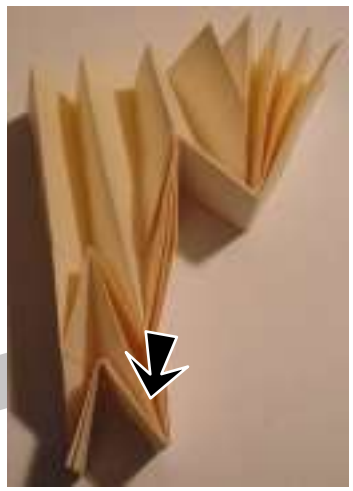
4. Form the shown creases pushing up the mountain fold from underneath, and then flatten the model. Also note the corresponding creases in the CP on the left.



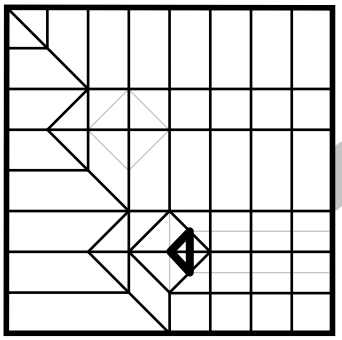


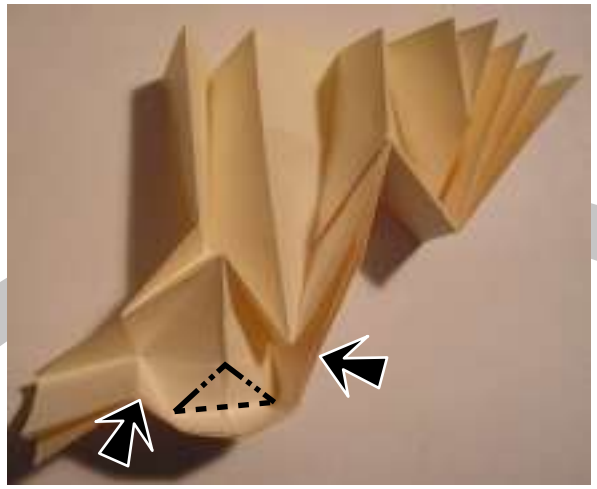
5. Fold and unfold the flap in half both ways, introducing the creases shown in the CP.



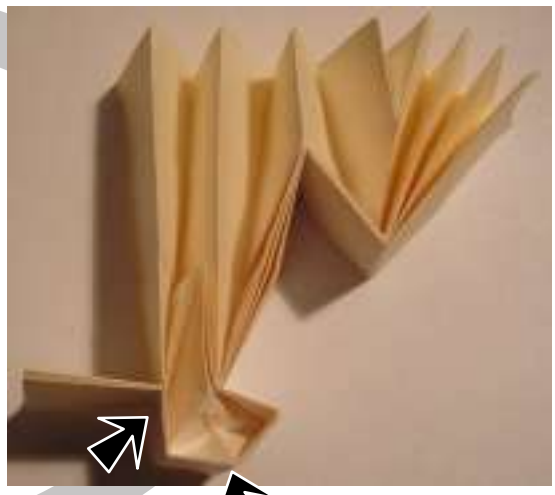


6. Push in the central flap, forming the valley fold shown in the CP on the existing crease.



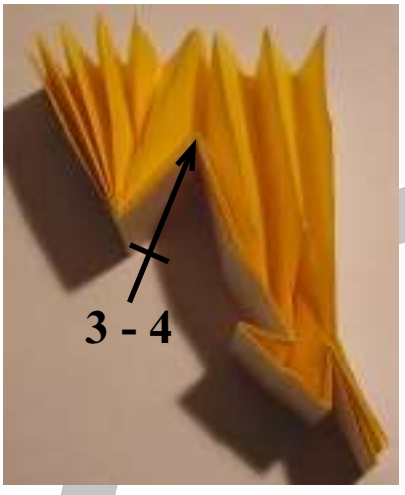


7. Push in the sides forming the shown creases.

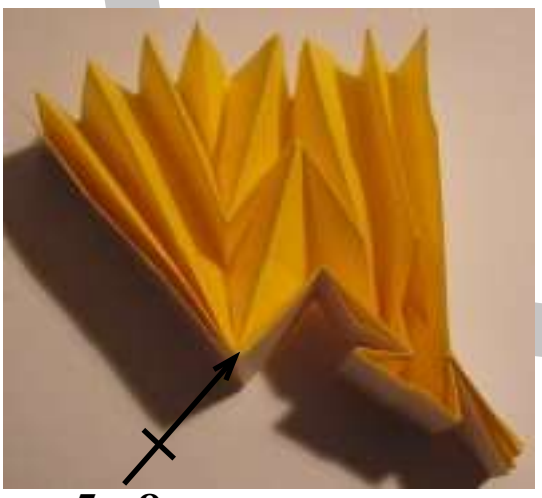


8. In progress.
Flatten completely.

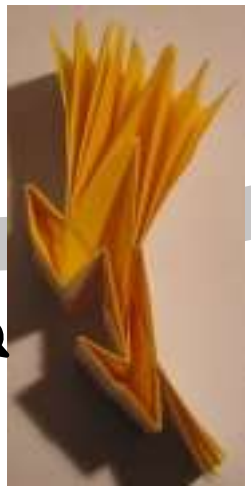
9. One belly plate is done. The next one works exactly the same, but you have to do it from the other side. So turn the model over.



10. Repeat steps 3-4 for the next pleat.



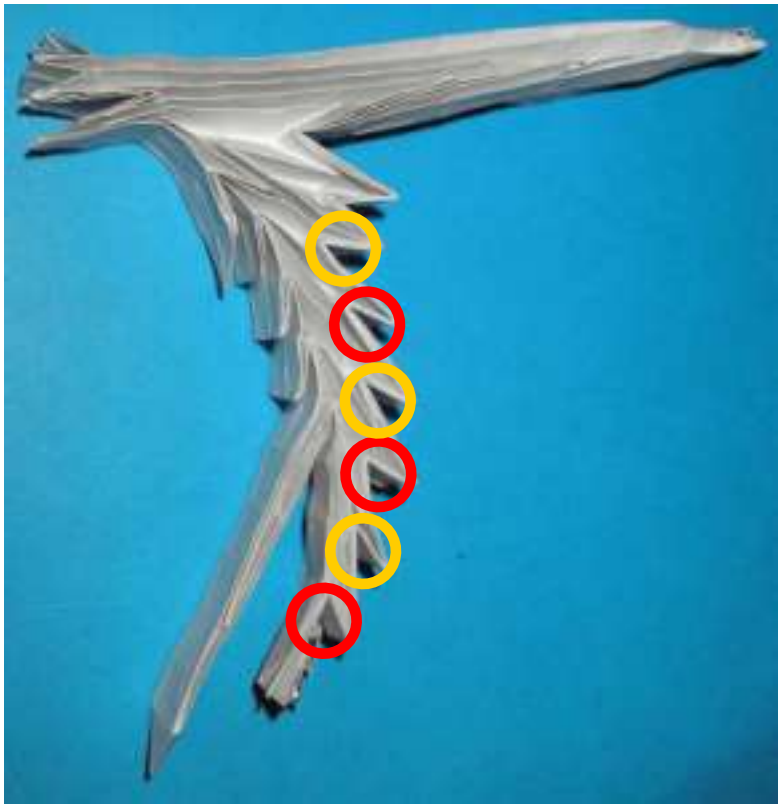
11. Repeat steps 5-8 for this flap.

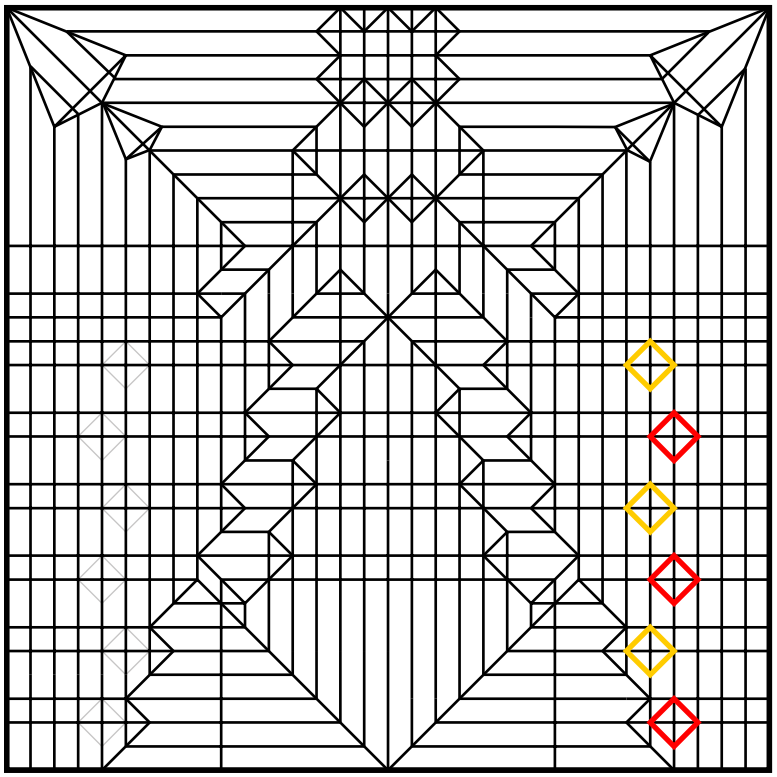


12. The second belly plate is done.

13. Belly plates seen from the front.

Now that you know how they are folded, make belly plates from the circled areas, starting from the bottom. For the red ones you open the layers from above (steps 3-8) for the orange ones you open the layers from underneath (steps 9-11). The according precreased squares which you will need are marked in the same colours in the CP.





On the left side of this picture the belly plates are already completed. Now do the same for the other side.

With this the base for the Hydralisk is completed and “all” that is left to do is to shape the model to your liking.

If you compare the pictures of how my Hydralisk looks on the next page and how the original Hydralisk by Jason Ku looks on his homepage, you will see that they are not very similiar, while both of them look like a Hydralisk. So you have a lot of freedom in finishing the model and there’s not really many hints I can give you for that except to play around a bit and shape until you like the model. Some pages earlier I’ve also showed what parts of the base will become what parts in the finished model so that should give you a pretty good idea what to do.

Have fun!