

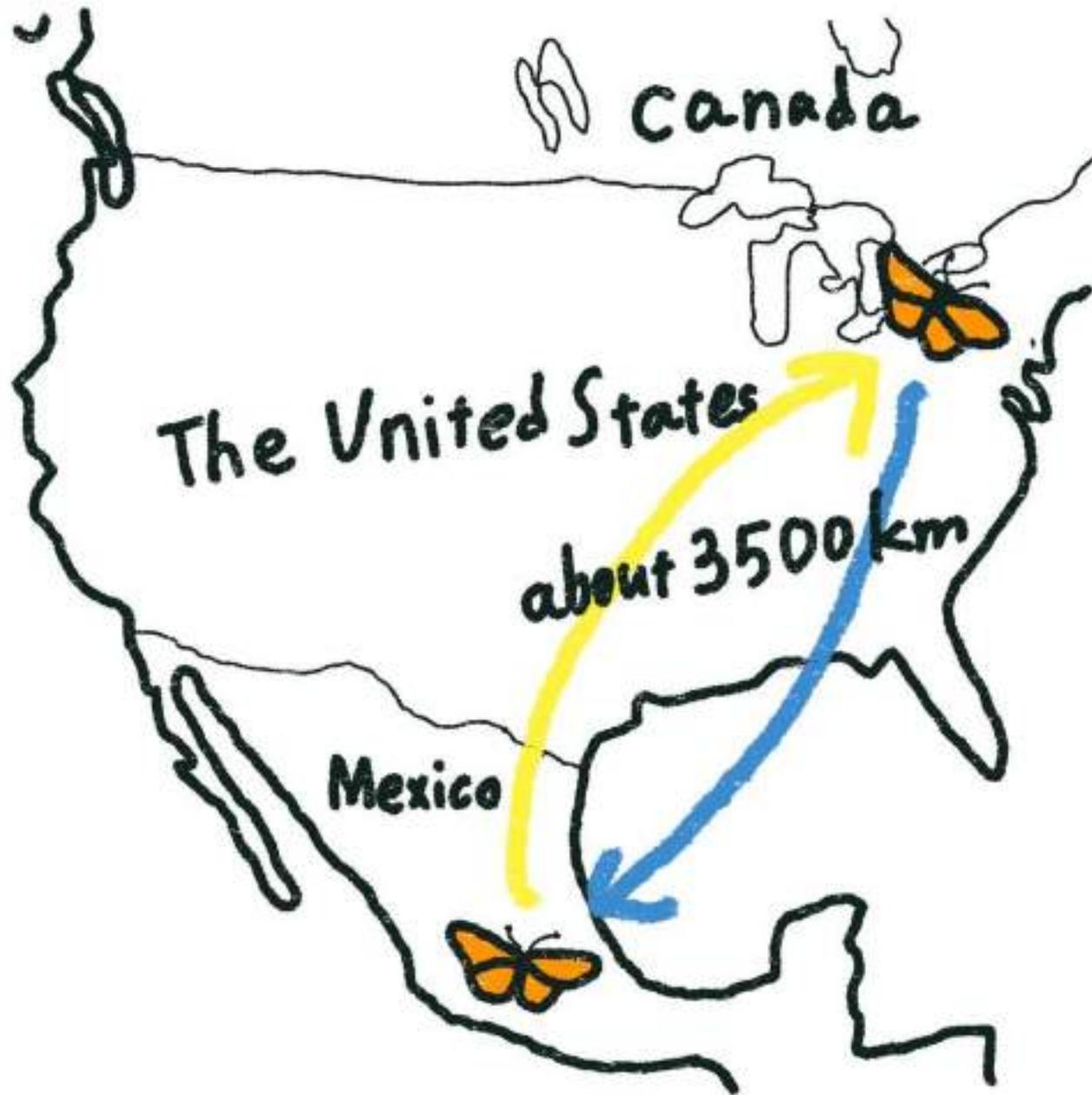
【W202103-2】

Aichi Prefectural Aichi High School of Technology and Engineering

A study of flapping wings of  
butterflies using  
“biomimetics”

Monarch  
butterfly





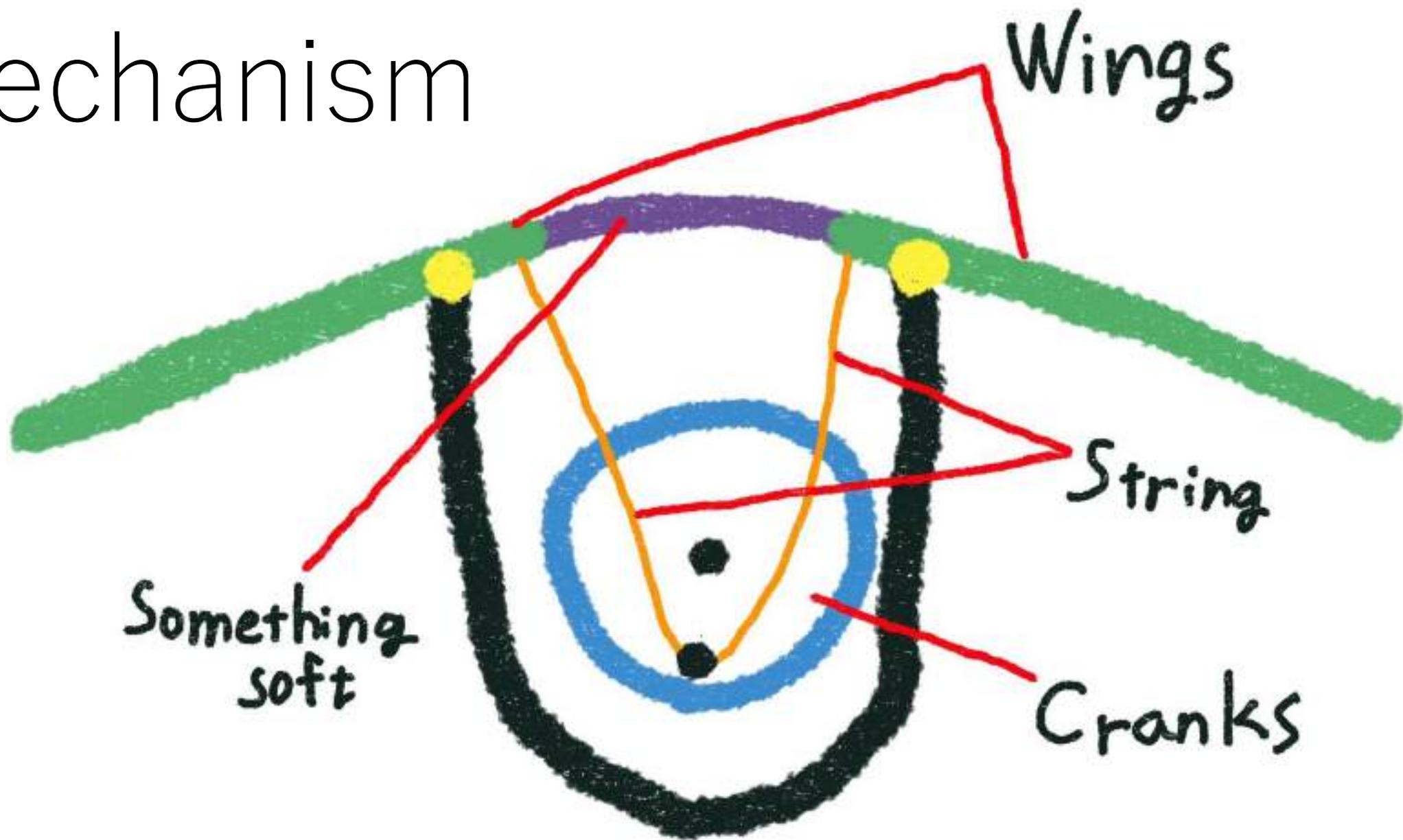
the  
migration  
of monarch  
butterfly

# Long-term planning of research

- 1.To observe the flapping of the butterfly
- 2.To inspect the robot mechanism that can  
Reproduce its movement
- 3.To observe fluid in each process of flapping
- 4.To inspect the robot`s energy and flight  
distance
- 5.To compare the butterfly and their models



# Mechanism





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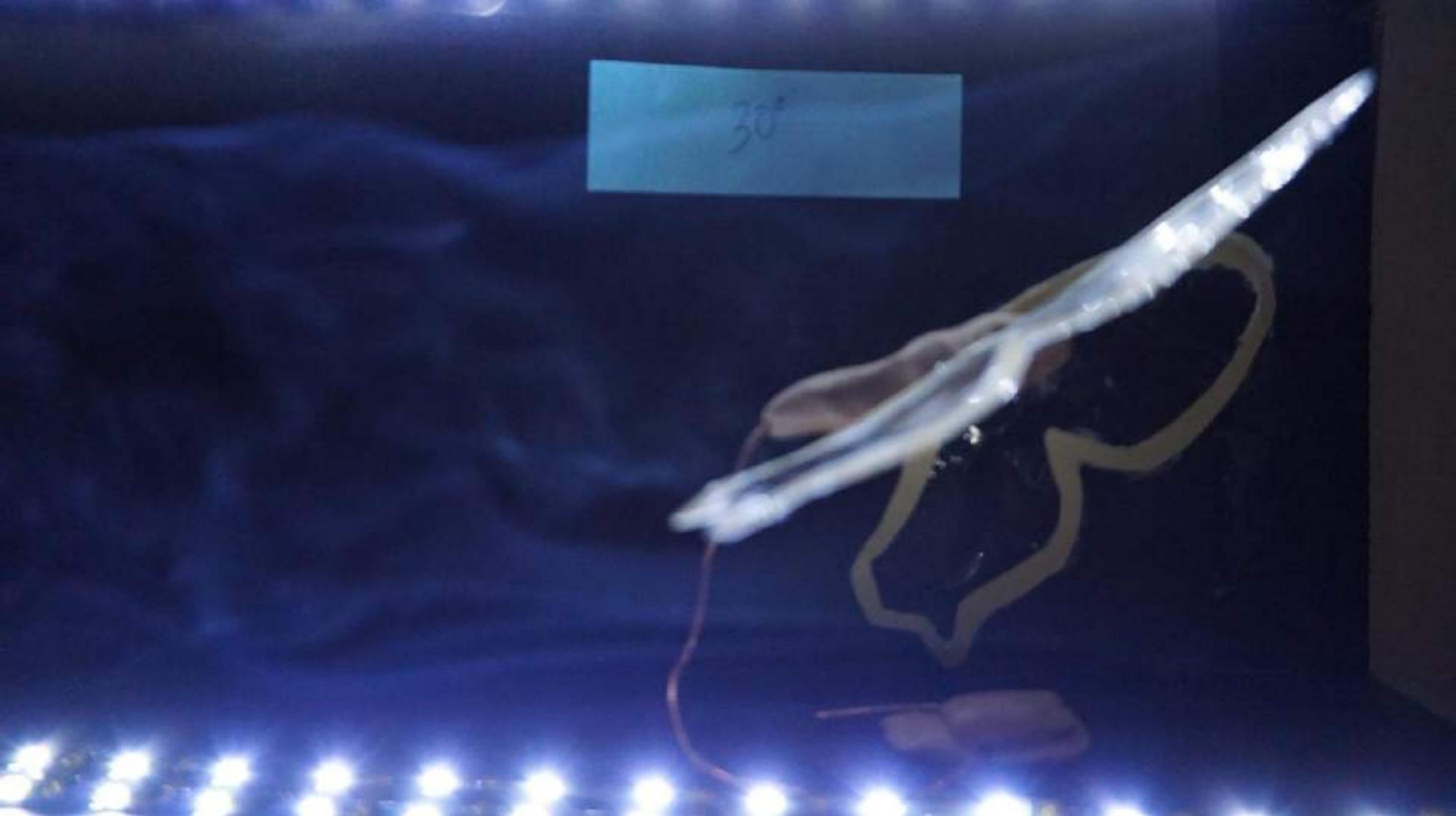
10°



20



30°



40°



50

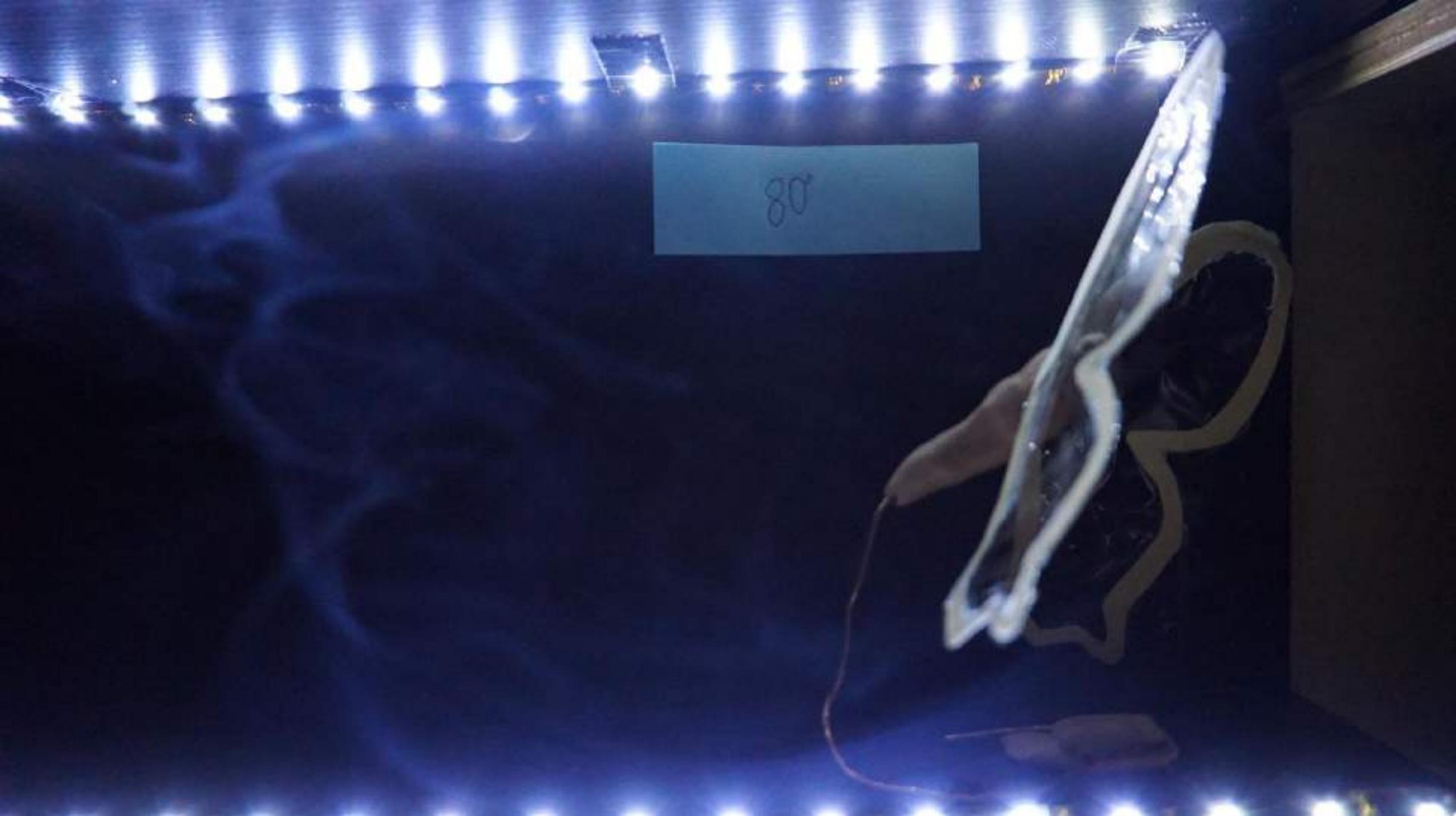


60



70°





80

90



# Discussion



# Prospects for the future

1. Developing Butterfly flapping model
2. Observation of fluids
3. Comparative verification



Thank you

for listening!!

