

Computational Linkage Design
MATLAB

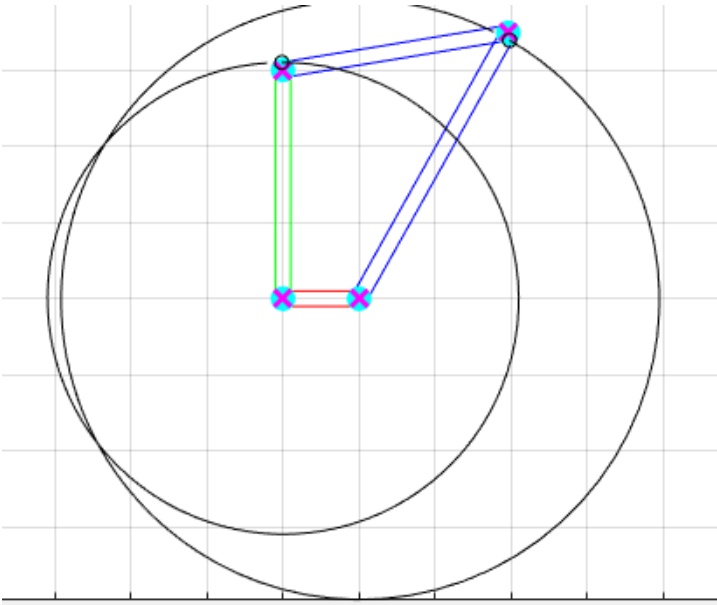
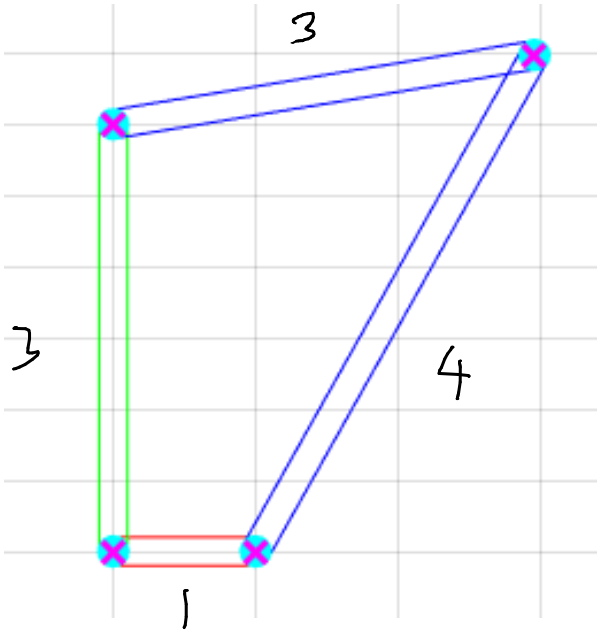
March 26, 2022

Implementation detail

Green - driver
Red - ground

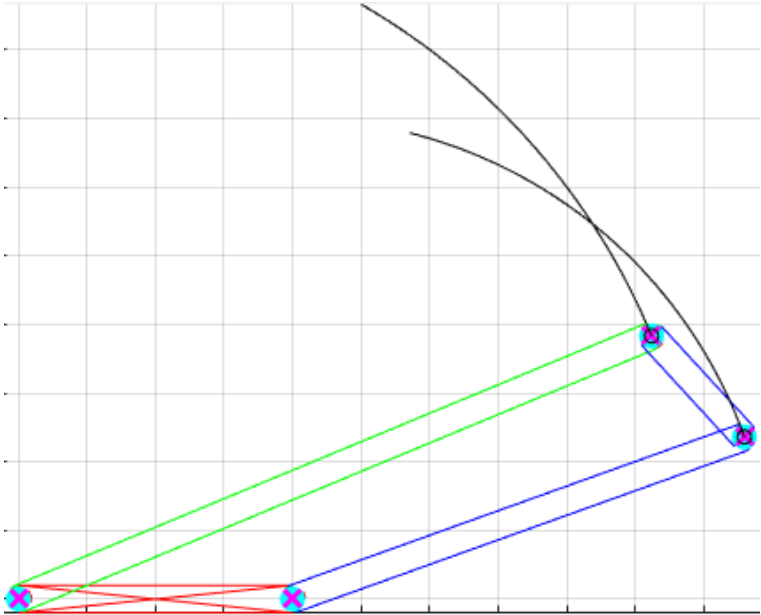
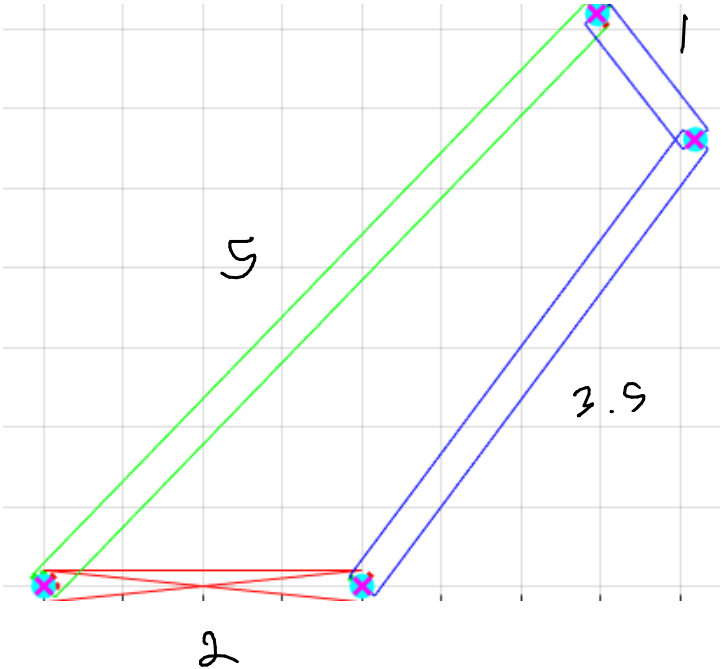
drag-link

linkages(1)



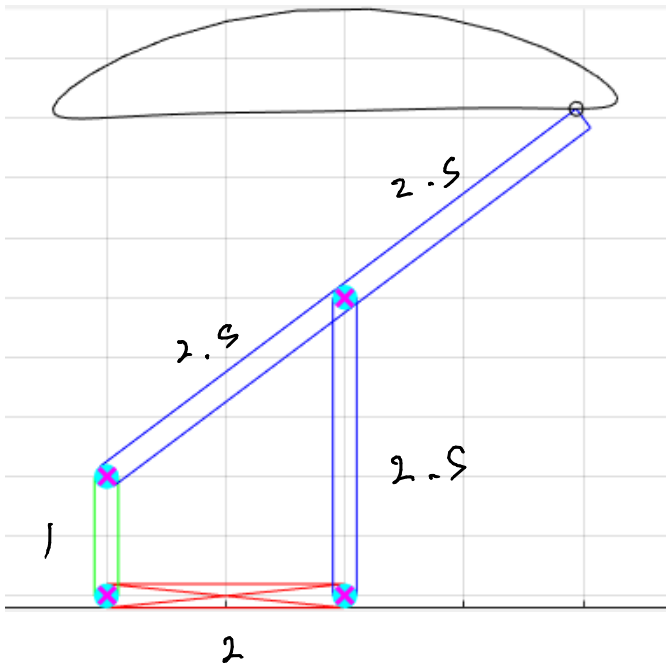
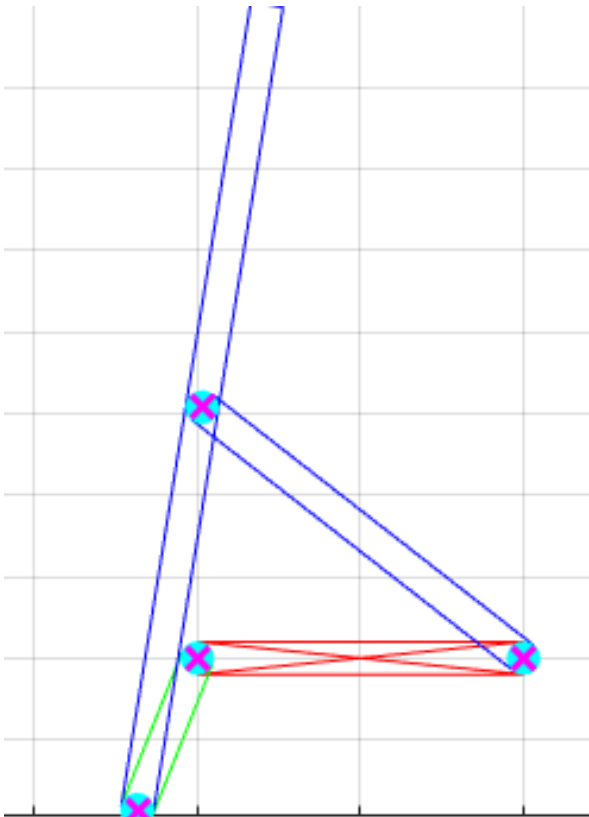
double-rocker

linkages (2)



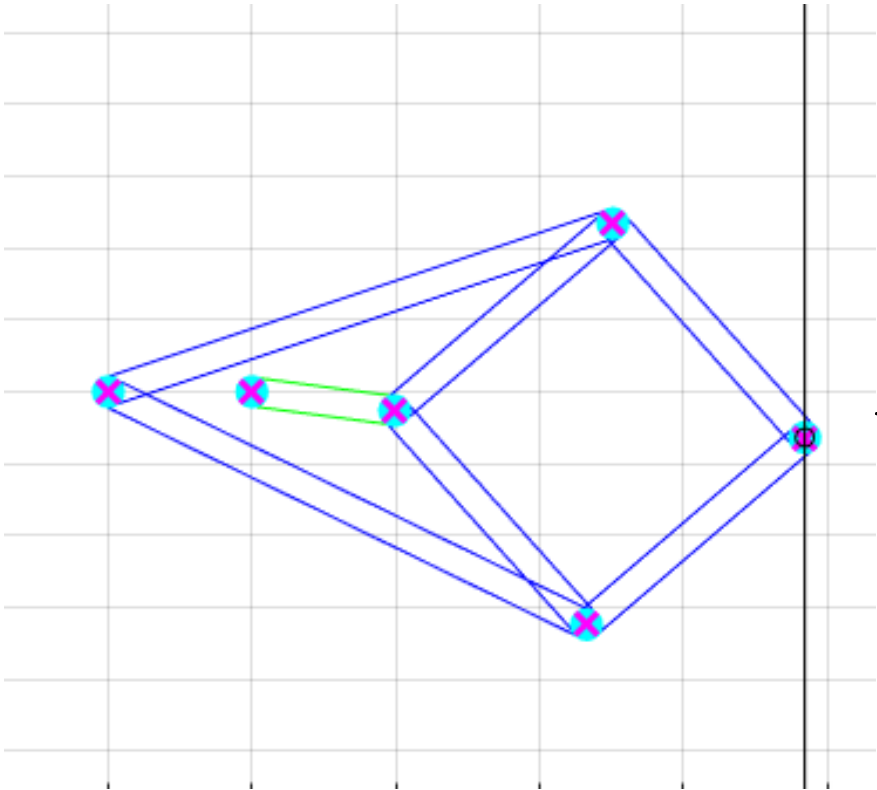
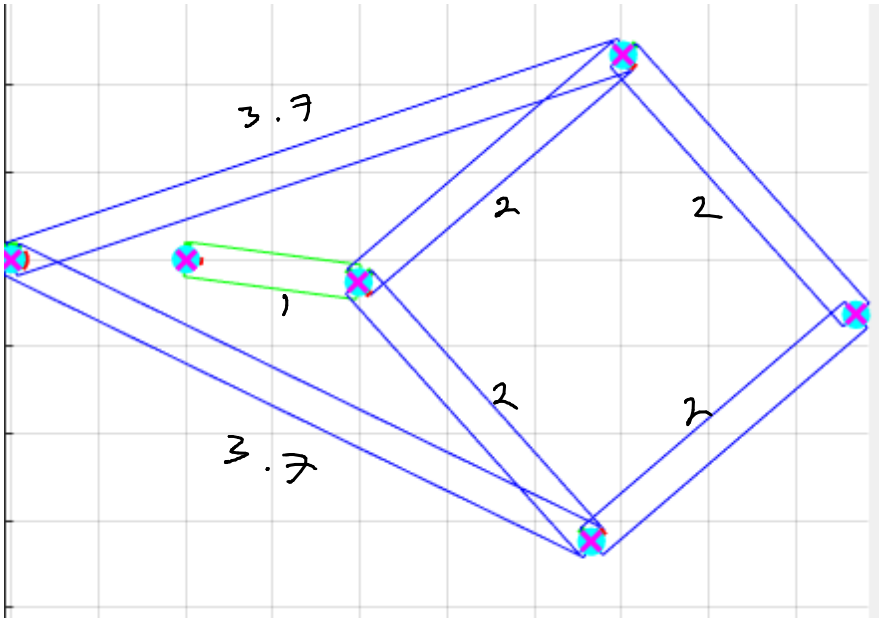
Hoekens

linkages (3)



Peaucellier-Lipkin

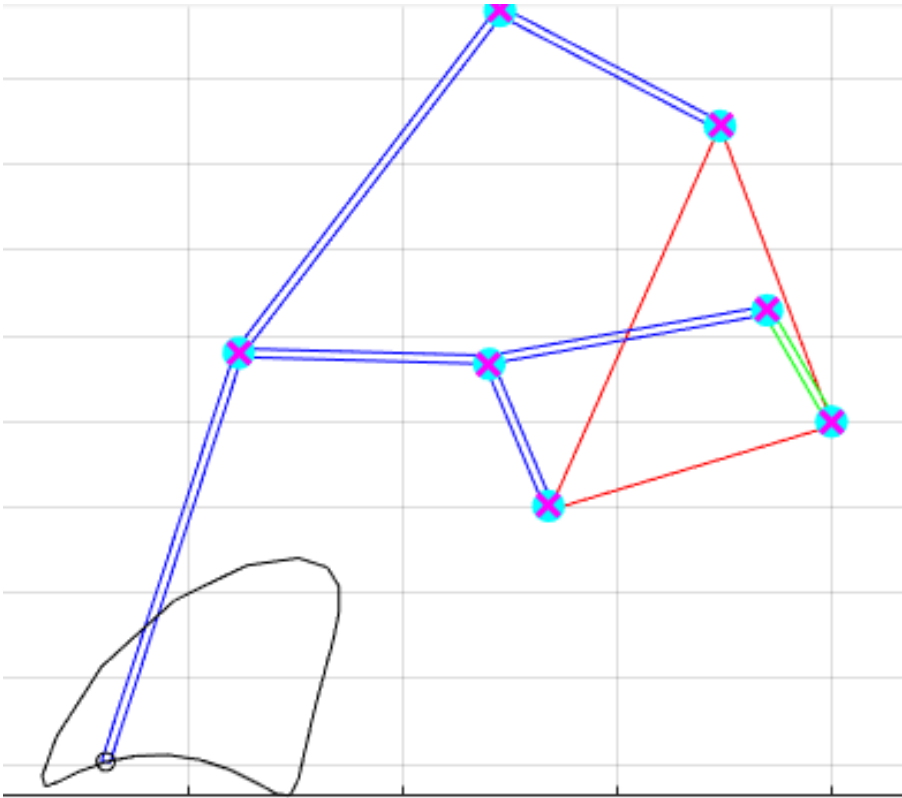
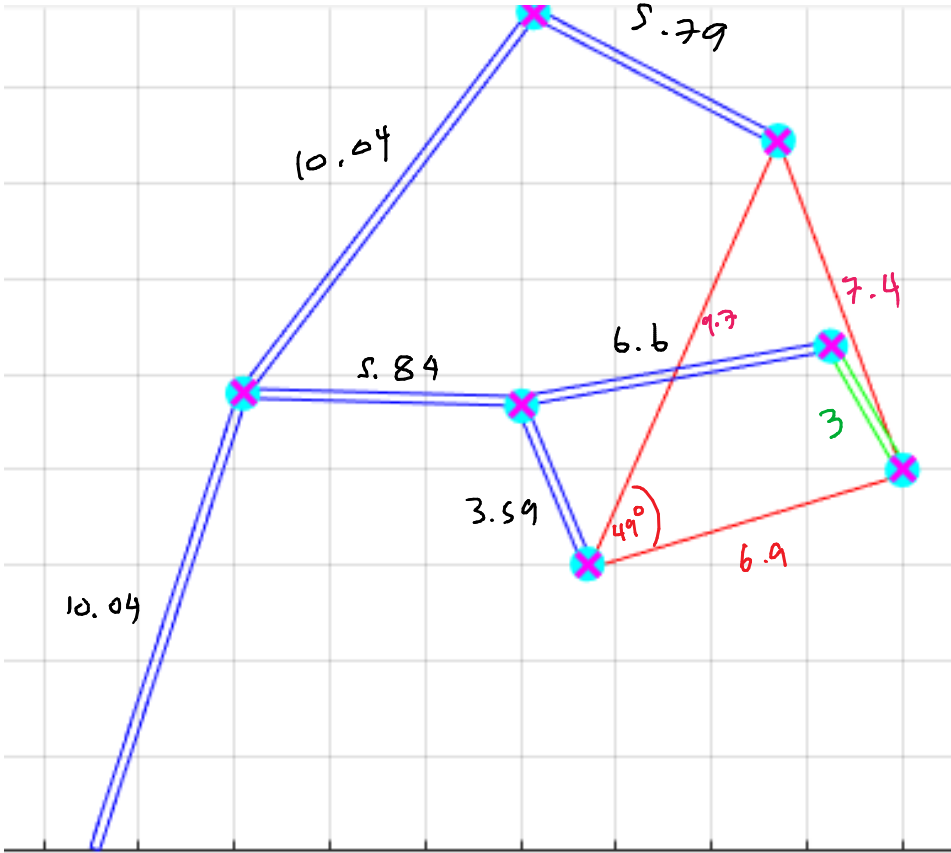
linkages (4)



move in
straight
line !

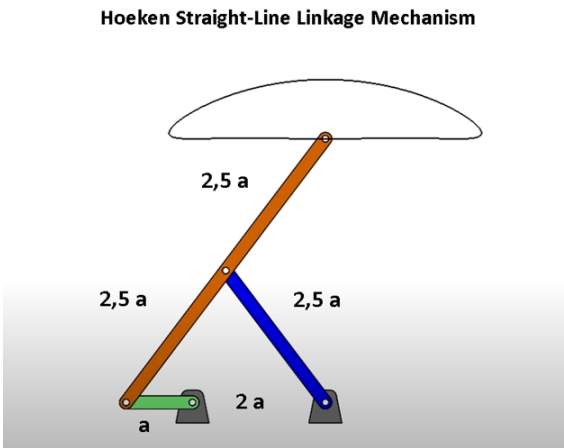
Klann

linkages (5)



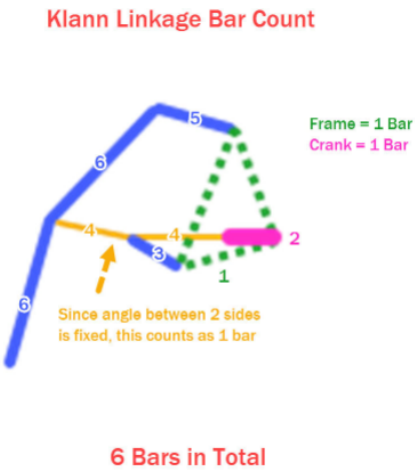
Hoekens

The design and dimension are based on the following youtube video
https://www.youtube.com/watch?v=2J7P8wHf_gM



Klann

The design and dimension are taken from klann's original patent show in the following link
<https://www.diywalkers.com/klanns-linkage-plans.html>



Patent's standard version, with Klann's linkage measurements scaled so that the crank's length equals 3:

