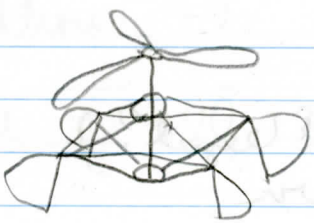
documentation
- complete design analysis
- list of selection criteria & selection matrix
- at least 3 designs
- itemized list of materials cost
- description of product & how it works
- autocad drawings details representing all parts of final product

final report

progress report: november 8

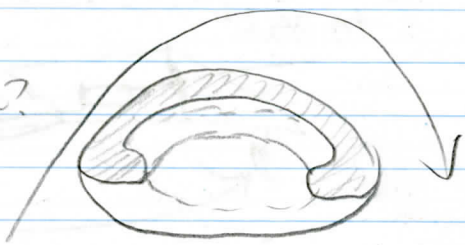
brief description of at least 3 designs considering & a timeline showing schedule of activities, specific dates for construction & testing of the final design & writing of final report

design 1 - fan lander

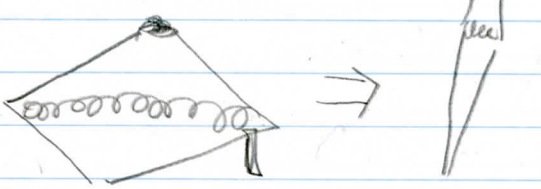


propulsion - rubber band
wind up, lever release
lightweight construction
3D printed parts
unpredictable
helicopter principle

cup-popper inspiration?

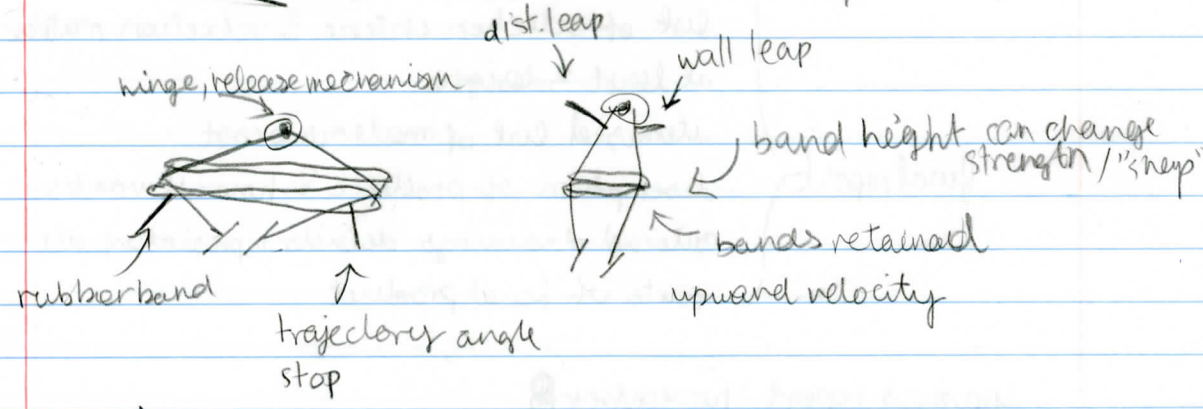


bistable mechanism?
spring energy



2

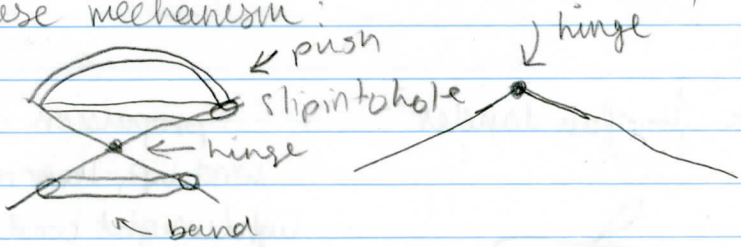
design 2: stick leaper rubber band powered



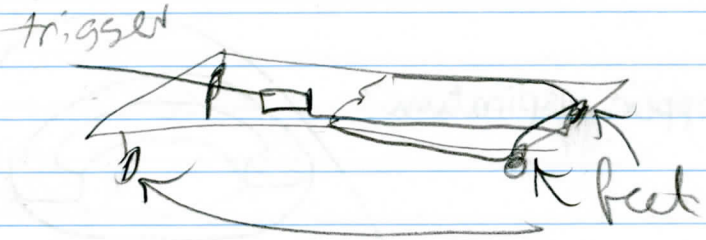
↖ tester from wall/dist leap.

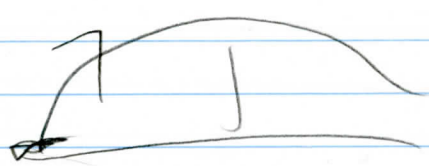
3d printed legs, low infill, thin design - 1 $
rubber band - 1 $

release mechanism:

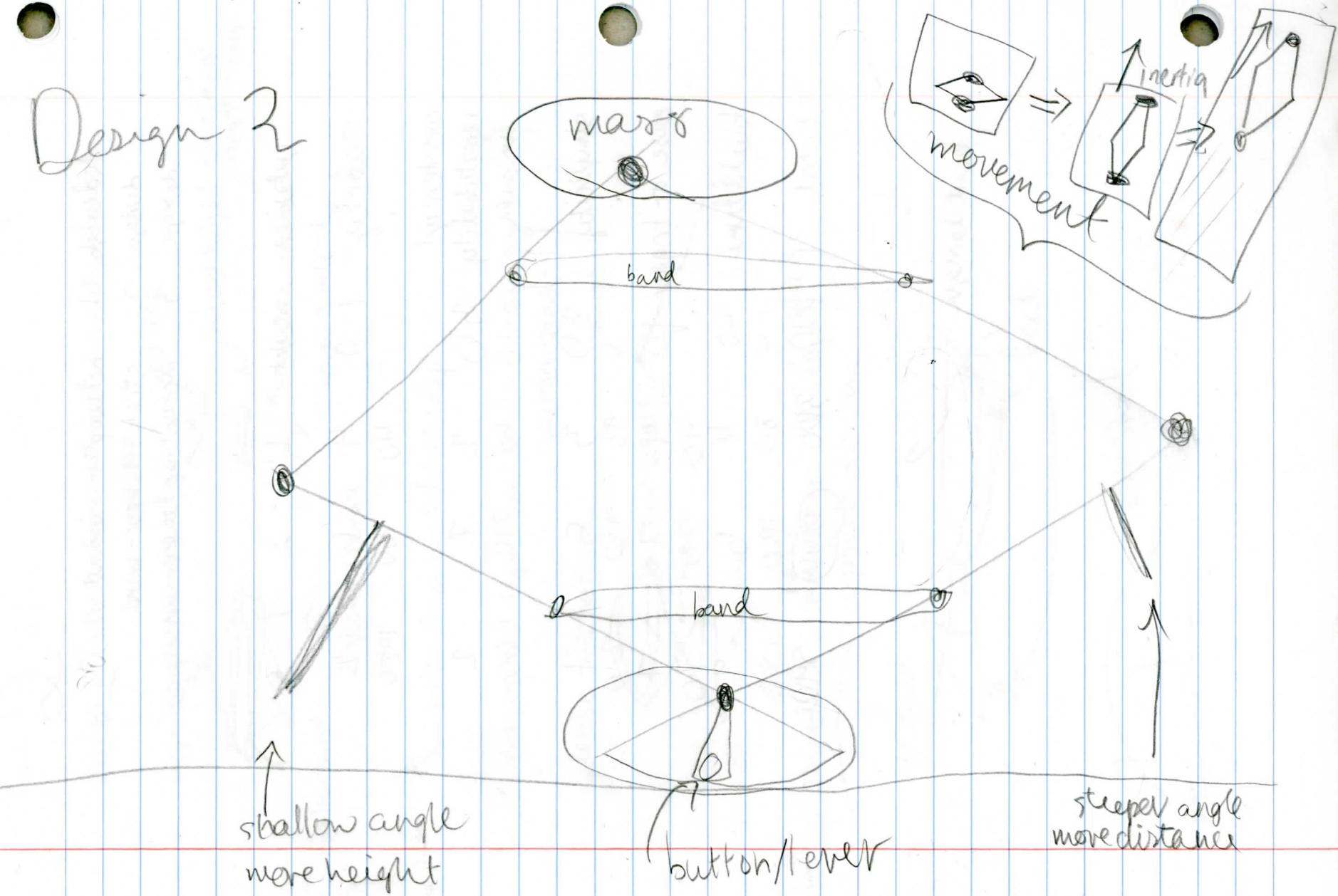


Design 3: hat/ mousetrap? (legal?)
upside down





Design 2


mast
band
movement
inertia
band
shallow angle
more height
button/lever
steeper angle
more distance

Design 2 schedule

- Auto CAD design Nov 8-10
- Fusion 360 legs, hinges, release, mass design Nov 10-15
- printing parts Nov 16
- assembly Nov 17