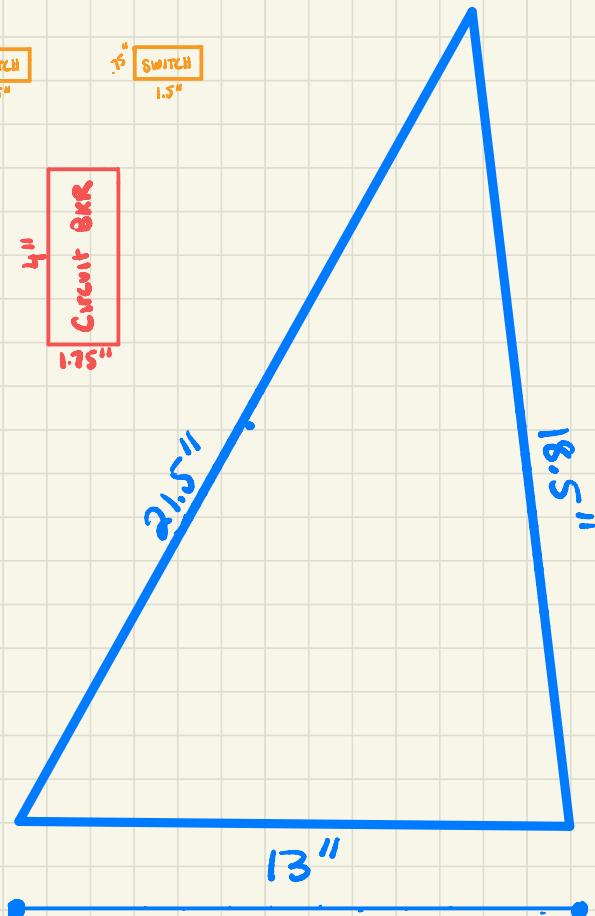
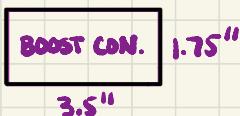
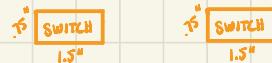
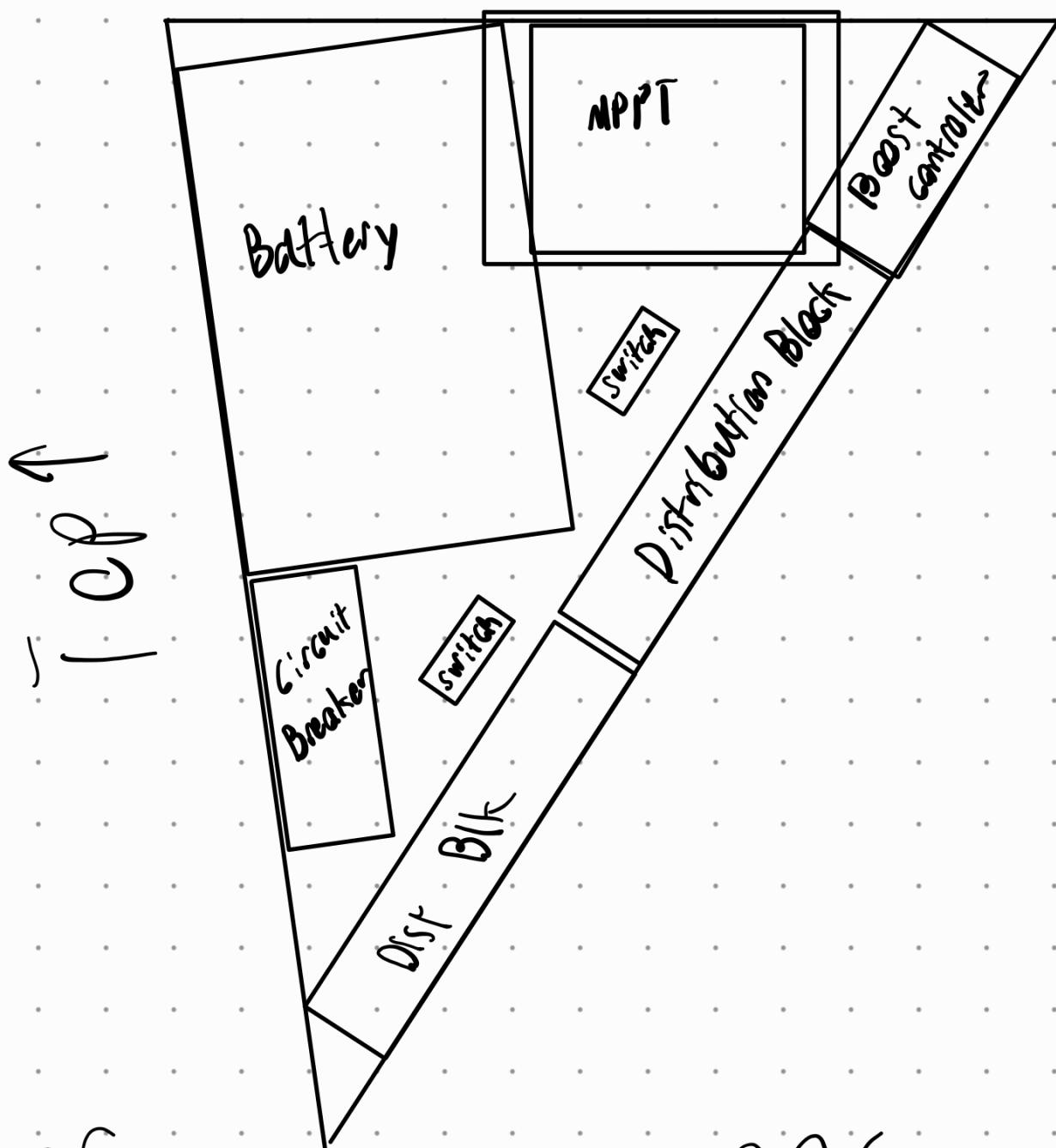


← inside dimensions
3.75" x 4"
(excluding mounting
block dimensions)



DESIGN 1] - Everything fits



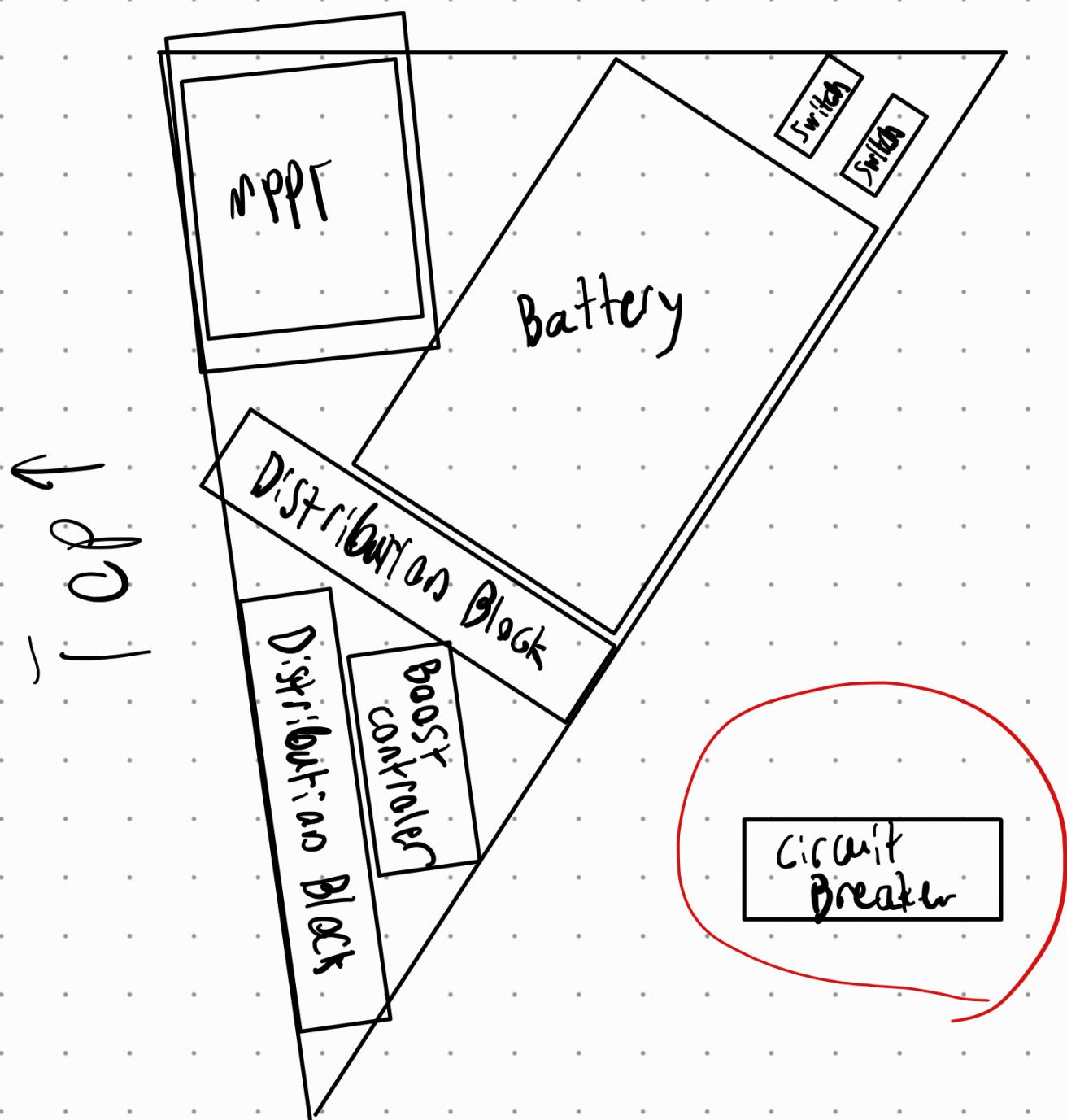
PROS

- Everything fits
- Central wiring

CONS

- Battery on top
(needs support)
- Pretty tight for
wiring

DESIGN 2] - Battery on Bottom



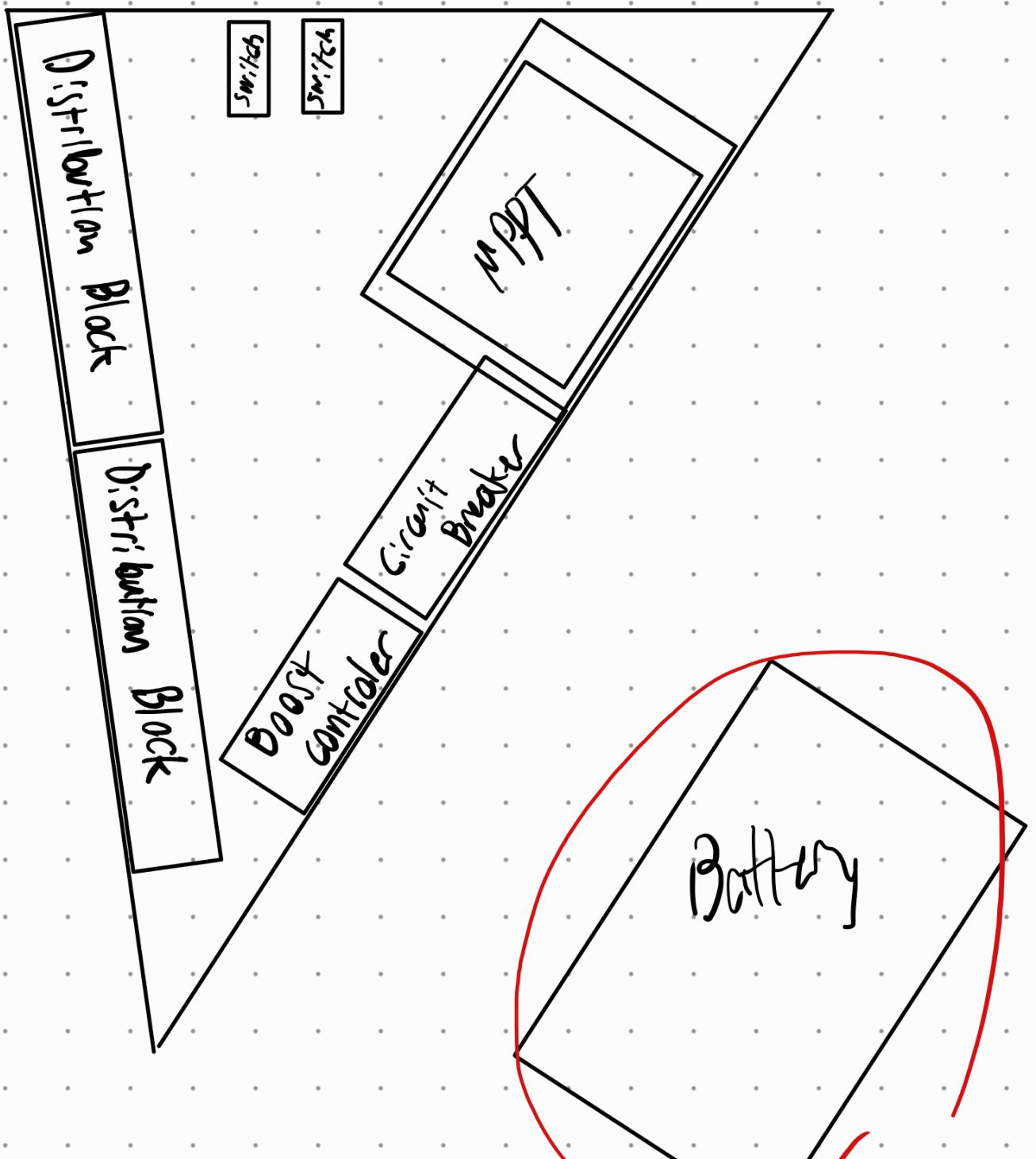
Pros

- Battery on Bottom
- Multiple switch locations
- Somewhat spacious

Cons

- Can't fit circuit breaker
- Boost controller away from motor

DESIGN 3] - No Battery



Pros

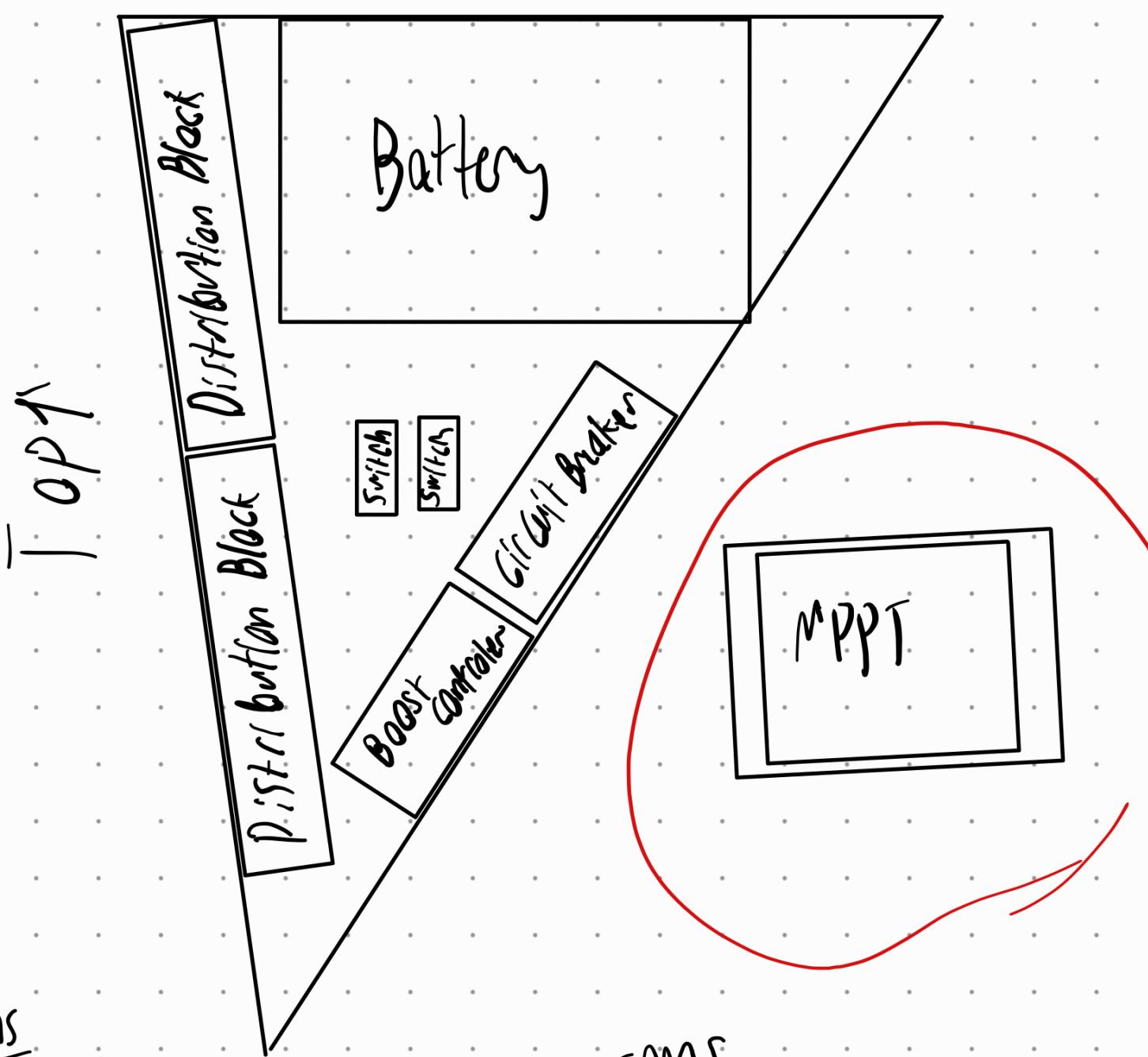
- Very nice for access and space
- Easy cable management
- Good to display parts
- Strong mounting support on bike frame

Cons

- Battery on the outside
- Lots of crossing wires

Design 4.1

- MPPT outside



Pros

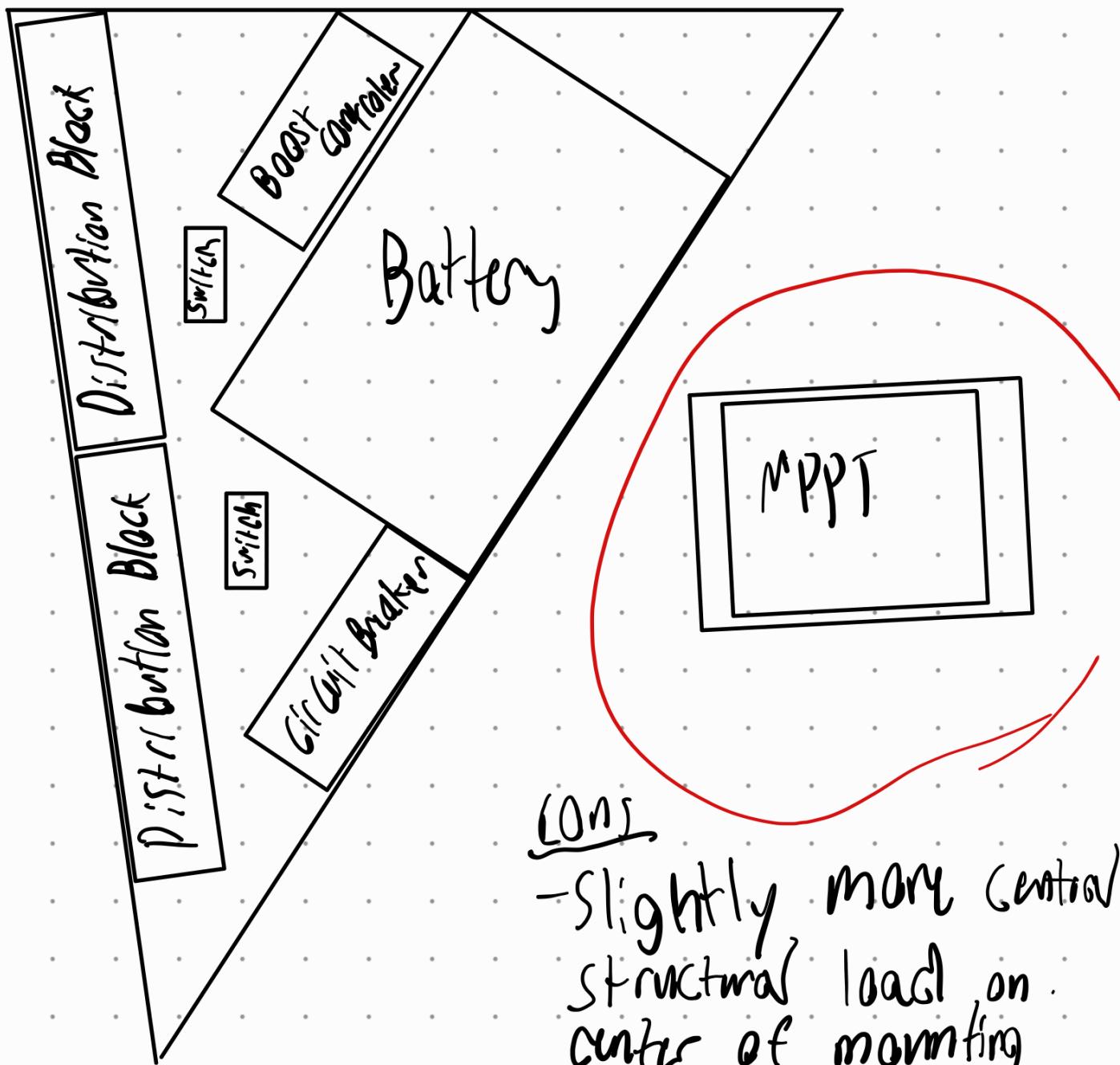
- spacious
- Battery under rider *
- very supported (aside from maybe battery)

CONS

- Not a super convenient place to mount switch
- MPPT outside

Design 4,2] - MPPT outside Battery on Bottoms

Top 1



Pros

- Battery on bottom support under rider
- Most thing well supported by bike frame
- Grouped cables easier to route and weatherproof?

(ONS)

- Slightly more central structural load on center of mounting board

- Boost controller on top of Battery (could get hot?)
- Circuit breaker and Boost Apart
- MPPT outside
- Grouped cables (Bad for Maintenance)