



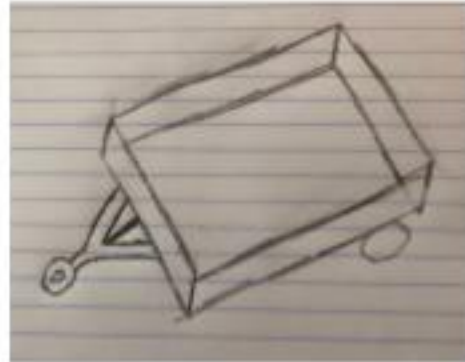
All-Terrain Electric Longboard and Trailer

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Initial Thesis:

To Design and create an affordable trailer that is able to be pulled behind a longboard with the capability of delivering parts throughout a large, several building manufacturing facility or campus.

Original Sketch:



Final Project:



Future Plans:

In the future, we want to be able to make this a more manufacturable product that way we can sell them to companies and they can assemble the trailer themselves.

Design Criteria:

Lightweight: Under 50 lbs

Durable: Able to hold 100 lbs

Affordable: Under \$150

Capable of high speed and all terrain

Frame:



Original Cad Model:



Budget:

Electric Skateboard: \$300

Wheels: \$25

80/20 Extrusion: \$43.14 per 8ft

1/4 inch lexan: \$90.16 per 24*48in

Misc Hardware: \$20