

## Powered Stair Climbing Equipment Mover

The sponsor envisions a powered equipment mover or dolly to provide single-operator load-moving assistance for delivery of large, bulky items such as refrigerators, exercise machines, and other heavy odd-shaped items. Possible embodiments may include a tracked or multi-wheeled arrangement, reconfigurable to accept various shaped loads. The device must be:

- Controllable and usable by a single operator
- Self-powered, preferably by battery
- Able to climb stairs when fully loaded
- Securely manage a load of 500 pounds, in
- Nimble enough to negotiate turns, stair landings, etc.
- Compatible with typical warehouse and homeowner indoor/outdoor operating environments

Full automation might be included as a follow-on idea, but that the first step would be design of a simple stair-climbing powered dolly with capability of handling odd-shaped and sized loads up to 500 lbs.

Initial project budget \$1000.

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