Objectives

- Overhead position
- Drop down door
- Secure
- Wireless control
- Store fishing/boating gear
- Potential for large-scale production
- Safe

Design Specifications

- **Weight**
  - Maximum content load of 200 lb. (Including weight of locker)
- **Size**
  - 4’x8’ nominal footprint
- **Speed**
  - 8-15 second operating time (one-way)
- **Power System**
  - 12 V DC power system
- **Location**
  - Minimum 7’ over-head clearance
- **Operation**
  - Wireless key-fob
- **Cost**
  - Not to exceed $1000

Linkage Arm Assembly

- Two-piece assembly
- Four bronze flanged bushings per linkage arm assembly
- Material: 1018 steel
- Assembly weight: 12 lbs.

Spring-Pulley/Skeletal System

- 160 lb. garage door springs
- 42 in. of stretch
- 2 pulleys per side
- Aide in raising locker

Actuator

- 12 V DC
- 560 lb. maximum capacity
- 24” Stroke length
- 1.85 in/sec

Replicated dock structure

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