

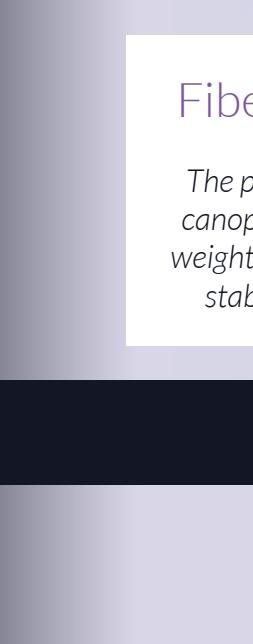
Automated canopy for power wheelchair users

2.009 Purple Team - Fall 2016
dryve.io

Features

User Interface

Intuitive buttons with a low force threshold make it easy for a user to deploy DRYVE.



Universal Mounting

The mounting system is flexible, allowing for attachment to a wide variety of power wheelchairs.

01.



Ripstop Nylon

The canopy is made of polyurethane coated nylon - it is sturdy, waterproof, and able to withstand the elements.

02.

Mesh Casing

Aluminum mesh casing on the back of the enclosure prevents rust and allows for water drainage.

03.

Fiberglass Poles

The poles supporting the canopy are made of light-weight fiberglass, providing stability at a low cost.

05.

Hinges

Hinges at the base of each pole are angled to allow the canopy to easily switch between retracted to deployed state.

06.

Lead Screw

The canopy is actuated with a lead screw, which rotates to provide quick and reliable deployment and retraction.



07.

Guide System

The platform attached to the canopy is directed with guide rails within the enclosure, and has chamfered slots to prevent poles from rotating once deployed.

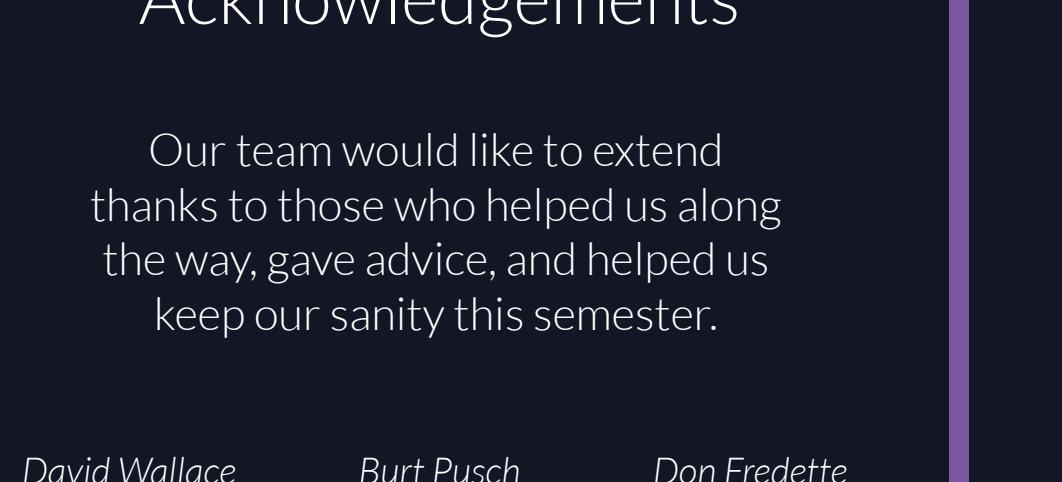
08.

Motor Housing

The motor and battery are enclosed in a sealed waterproof casing, which meets Ingress Protection Standards, to prevent water damage.

09.

Our Proposal



Initial investment of **\$600,000**
Break even during year **2**
Capture **4%** of the market by **year 4**

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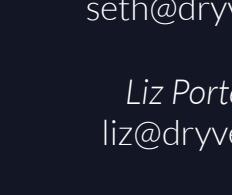
\$145
Retail Profit

\$125
Manufacturing Cost

\$485
Retail Price

\$215
Wholesale Profit

Power Wheelchair Users



32,000 New England
250,000 United States

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