Specifications
Wheel Me Up Scotty!

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Team #1

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Introduction

People with disabilities face serious obstacles when undergoing various medical examinations. Standard examination equipment does not present a feasible option for examining patients with disabilities. This is most prevalent with people who are confined to wheelchairs and don't have the range of mobility necessary to access forms of modern health care. Therefore, a great need exists for devices to assist people with said disabilities.

To make the project worthwhile for the customer the wheelchair platform device must be able to elevate the patient to the height of a standing person. Furthermore, the device must have 360° of rotation to maximize the ease of examination.
**Electrical Parameters**

Battery Life  
At least 1 hour

**Mechanical Parameters**

Size  
Less than 3’ x 7’

Weight  
500 lbs max

Ramp Slope  
1:10 – 1:12 Max Height 6”

Stage Area  
Minimum 30” x 48”

Vertical Speed  
1 ft/s < s < 1 ft/hr

Rotational Speed  
1 rps < s < 1 rph

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