Project Specifications
Motorized Wheelchair Lift

Team 1
September 15, 2003
Laura Romonosky
Chris Binette
Ronald Magboo
Universal Design for Accessible Medical Instrumentation

Client Contact:
John D Enderle
University of Connecticut
260 Glenbrook Rd, U-2157
Storrs, CT 06269
(860) 486-5521
I. Introduction and Overview

If a wheelchair user does not have handicap access to a healthcare facility or diagnostic equipment, then the user will benefit from The Motorized Wheelchair Lift. This device will solve most handicap accessibility problems and allows wheelchair bound individuals to receive proper healthcare treatments. The platform can raise three to nine inches and rotate 360 degrees. The various functions can be operated using a foot controls, which will have an easy to use design. A safety railing will line the perimeter of the platform. A ramp allows the individual to transition from the ground level onto the platform. Once on the lift, the ramp raises and forms a continuous connection with the safety railings on the platform. The platform is compact enough to allow use in narrow passageways. It is also made of lightweight materials that make it easy to transport.

II. Technical Specifications

**Dimensions**

Height: 6” (3” base with a 3” railing)
Circumference: <3’6” (large enough to accommodate any wheelchair)
Weight: <50 lbs.
Max Vertical Translation: 3”–9”
Max Rotation: unlimited (360 degrees)
Rotational Speed: <4Rev/Min
Translation Speed: <1 Foot/Min

**Electrical Parameters**

Power Source: 120VAC/60 Hz
Internal Power: 12 VDC
Battery Life: <12 (with normal use)

**Mechanical Requirements**

Max Weight Capacity: 350 lbs Lift