

## Our Design

We built a prototype of the shopping cart out of plexi-glass; this allows a clear view of the circuitry within the shopping cart. The cart is 8 1/2" high, 8" wide, and 4" deep; it is comprised of two detachable parts; one is the base which includes 3 wheels, 2 of which are controlled by servo motors, the battery pack, 3 ultrasonic sensors, and the BASIC Stamp; the base is connected to the apex through the use of 4 columns.