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Introduction
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Activities
Current focus: Toilet transfers

- **Toilet**: Will use a Pressalit Toilet System for auto-up and down toilet movement. Will adapt for side to side movement. Toilet seat will have load cells embedded.

- **Floor** will use an array of load cells at 8” intervals to sense weight and location during transfer. A prototype floor (v6) is complete. Final floor plans in progress

- **Grab bars** will be mounted to the Pressalit system with a 4-load cell mount designed to measure weight on the bars. Mount is designed, load cells installed. Next load cells will be connected and visualized.

- **Grab bars** will sense location and pressure of hand grasp(s) along the arm using sensors installed on the handles. U-bar prototype is functional, Pressalit grab bars needed to be redesigned with 3D printed insert to protect wires.

- **Bath tub** will move up and down on 80/20 to allow bath or shower transfer tests

- **Shower Grab bar wall** will consist of an array of holes in steel with bars able to orient in multiple angles and locations.

Challenges
Multiple design and technology challenges have resulted in lab completion delays. As a result, the team decided to focus on toilet transfer first.

Future Directions
Studies of toilet transfers are expected to begin in Fall, 2016. These studies will help evaluate the accuracy and benefit of the lab.

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