Team 1900’s ButlerBot

The purpose of the ButlerBot is to provide assistance for doctors and nurses. The purpose of the ButlerBot is to perform remedial tasks allowing the doctor to maximize time with the patient. The ButlerBot provides a doctor with five drawers and a rotating plate. With non-motorized drawers made from linear sliders, doctors can keep each of the patient’s information seperated (e.g. lab equipment, test results, etc.). Divided into four sections, the plate can also hold lab equipment (e.g. blood vials, syringes, etc.) and the robot can autonomously take it from the patients room to the lab.

The ButlerBot is equipped with 8 ultrasonic range finders, a gyroscope, and 8 optical shaft encoders. The ultrasonic range finders stop the robot from running into anything in the hall. With a preprogrammed LCD the robot will always reach the correct room or area on the floor with the press of a few buttons. The robot, with proper coding, will return to the doctor after being replenished or dropping off tests at any station. All of these features maximizes the doctor’s time in the room with the patient.

Many of Autodesk's features were helpful: especially being able to go back to old designs saved in the old versions folder, and the ability to shrink-wrap each assembly and make it a part which could be added. Whenever my ideas were a total bust it was great knowing that I could go back and find my previous designs and versions. Finally the ability to shrink-wrap each component saved my computer's memory. Also though the butler bot looks complicated it is really a many shrink-wrapped pieces assembled.