

Progress Report: Week of 11-3-2005

Robotic Arm for Minimally Invasive Surgery Team 22

Client: Aimen F. Shaaban, M.D.
Assistant Professor of Surgery
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Team Members: Ashley Huth (BSAC)
Brenton Nelson (Leader)
Max Michalski (Communicator)
Sujan Bhaheetharan (BWIG)

Problem Statement: Our client desires a more efficient surgical instrument for minimally invasive surgery. The instrument must be operable by hand and optimally will mimic the motions of the human wrist. Improvements of various factors for convenience are necessary and include, but are not limited to: applied force feedback, reusability, and simple operation for new users.

Last Week's Goals:

- Get the mechanism working
- Design a large-scale model of the prototype
- Decide whether the group will pursue a real-scale model of the prototype

Accomplishments:

- Ordered parts for the design
- Obtained a budget from our client
- Finalized the planned mechanism
- Began drawing the prototype using Solid Works

Next Week's Goals:

- Build Prototype
- Finish Solid Works drawing and get the Rapid prototype of our shell for the final prototype.

Difficulties:

The mechanism to control the design is proving to be a challenge.

Team Activities:

11-4-05: Class time

Time: 1hr

Project Timeline:

End Semester Presentation														
End Semester Paper														
Meetings														
Client														
Final Meeting with Advisor														
Prototype														
accounting/budgeting														
final design developments														
rapid prototyping														
analysis/testing														
final prototype manufacturing														
final testing														
Website														
BSAC														

Brenton
 Max
 Ashley
 Sujan
 All

