

Progress Report: Week of 9-16-2005

Robotic Arm for Minimally Invasive Surgery Team 22

Client: Aimen F. Shaaban, M.D.
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Team Members: Ashley Huth (BSAC)
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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:

- Finish our project schedule.
- Decide on the exact project design specifications as a group.
- Continue to gather information on surgical tools to help us design our project.
- Meet with Prof. Kreg Grueben to talk about our project and get more ideas, if possible.
- Continue to brainstorm possible designs and/or make modifications to any designs currently in use or on the drawing board.
- Take apart the current model of surgical tool

Accomplishments:

- Finished the team's project timeline
- Finished the team's PDS (project design specifications)
- Edited the team's problem statement
- Made contact with Prof. Kreg Gruben and he lent his help for a future date.
- Brainstormed possible designs/ made larger versions of a possible prototype.
- Got acquainted with the current surgical tool.

Next Week's Goals:

- Continue to brainstorm possible new designs
- Narrow the team's focus down to three possible designs.
- Begin to think about the team's paper due on October 20th.
- Continue to research current designs of surgical tools.

Difficulties:

No difficulties to speak of.

