

EWH Aspirator

Client: Dr. John Webster

*Team Members: Lucas Vitzthum (Leader)
Jonathan Meyer (BWIG)
Nick Harrison (Communications)
Fan Wu (BSAC)
Tyler Lark (honorary member/Team mascot)*

Sept 7-13

Progress Report #1

Problem Statement

The objective of this project is to design a suction machine that can be manufactured from locally available materials with the ability to run off batteries, electrical power (when available) or human power. This device should provide the broadest range of possible applications while still remaining under the 100\$ price limit.

Last Week's Goals

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Summary of Accomplishments

- Reviewed last semesters papers and presentations
- Gathered parts from last semester and reassembled the aspirator.
- Demonstrated how the device works to our new member, Jon.
- Contacted EWH about continuing project, a field engineer from Honduras would like to look at our design for areas of improvement.
- Met Thursday night to discuss major improvements needed in the design. Identified; check valves, diaphragm system, and the casing of the device to be the areas most needing improvement.

This week's Goals

- Nick- Contact EWH about funding project
- Lucas-Contact Fronzak for advice on project, Talk to Amit about using light bulb as power resistor
- Fan- Research new ways to power diaphragm from motor
- Jon-Research check valves/ find household items for construction

Nick

Communicated with EWH about project and financial support (1hr)

Met with Advisor (1 hr)

Met Thursday at ECB w/ group (1hr)

Total: 3 hours