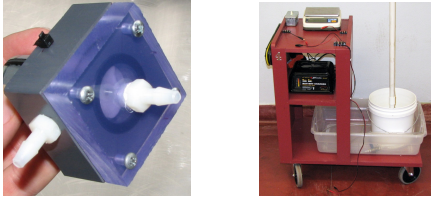


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Fabrication and testing of a centrifugal pump



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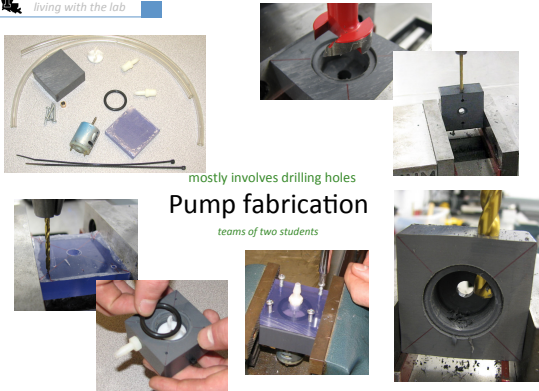
2

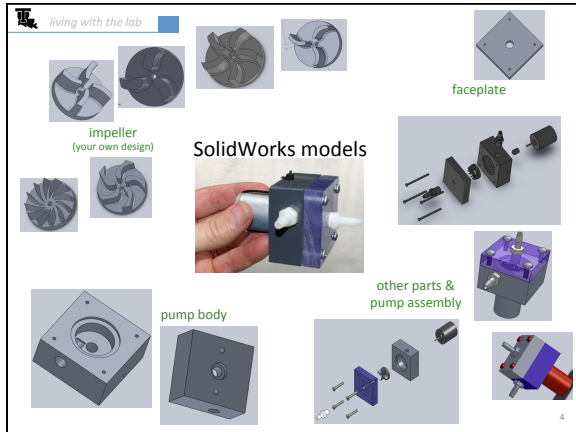
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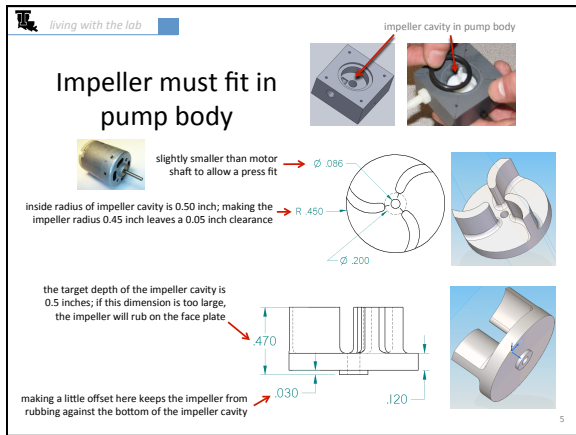
mostly involves drilling holes

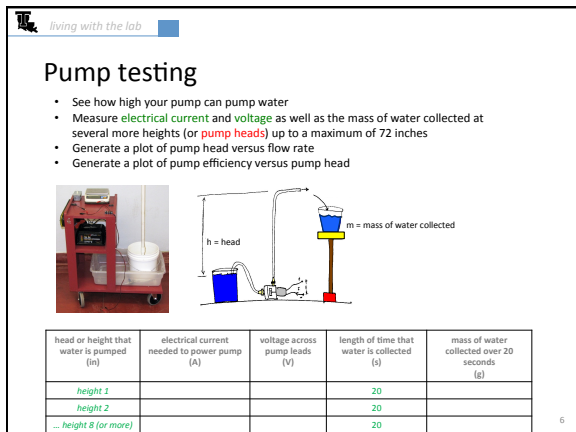
Pump fabrication

teams of two students









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What to turn in

1. A title page
2. A concise, well-written executive summary that includes . . .
 - a. A couple of introductory sentences describing the project
 - b. The maximum pump head (meters)
 - c. The peak flow rate (liters per minute)
 - d. Typical voltage (V) and current measurements (A)
 - e. The peak efficiency (%) and the head (meters) at which the peak efficiency occurs
3. Photos of you and your partner(s) during pump fabrication and testing
4. Your Excel spreadsheet containing the raw data and computed values:
5. A detailed hand calculation using engineering format showing all calculations for a data point in your Excel spreadsheet (include units!!)
6. A plot of pump head versus (meters) flow rate (liters per minute)
7. A plot of pump efficiency (%) versus pump head (meters)

Be sure to put the items in the order listed (1, 2, 3, . . . 7) and do a clean job of presenting your work. A good part of your grade will be based on how well your executive summary is written. Don't forget to use units in your table, calculations and plots.

7

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Who uses pumps?



insulin pump

8
