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Dominick Amador's Individual Contribution Page

Spring 2011 Contributions

As a member of the 2011 Water Pump Team, I, along with my partners Patrick Farnham, Michael Liu, and Weiling Xu, worked to develop a pumping system that is specifically useful for transferring water two to three meters in elevation from the settled water channel to the chemical stock tanks in an AguaClara plant. After much research and debate we have decided to focus a few designs that we feel would best suite our needs. These include the piston lever pump, treadle pump, and diaphragm pump.

After working with my team on the equations used to model these systems and subsequently find the best parameters to which to build our pumps I was able to take a lead roll in the building and testing of our findings. Being the most experienced with fabrication techniques needed to construct our prototypes I was put in charge of this part of our project and made sure that our pumps were created such that they were accurate representations of our designs.