cas Garcia Comejo (Captain) Lucas is the team captain and he has be involved in every single step of has beer involved in every single step of the project. He also brought in many tools from home and was in charge of bringing in materials. Lucas also supervised when using power tools, making sure his teammates were being safe and careful. He also ran team meetings and was in charge of wheth was meetings and was in charge of wheth was to the control of meetings and was in charge of what was happening throughout the build process

iyes Raman (Co-Captain)

Shrayes was in charge of running experiments to determine what would work in the process. He aided in designing the entire frame as well as building it. He also designed the actual lever and ran experiments in order to determine how much weight would be needed in order to lift the pipe as well as calculate the time the device would life the pipe. The lever was also built in part by Shrayes. Shrayes also helped to secure the release mechanism.

siah Polhemus

Josiah helped assemble the final machine the pin mechanism to enable the machine

Nick helped with the sketch designs of the final machine, and getting the material for it as well. He additionally worked with the handyman work, such as screwing, nailing, cutting, and more. He helped with tieing the rope around, deciding how long it should be, along with the stand against the pipe to

Samuel contributed by being a type of jack of all trades master of none. He helped with various things such as secretary, brainstorming, working on the prototype, working on the doc, and the project posters. Samuel also helped fundraise.

Emily, being the team Secretary, wrote ou the daily notes of the team's progress.She helped design the bake sale poster, organize the team's fundraiser to fund for the supplies. Lastly, she helped make the poster for the JPL competition.

Ben was a central engineer throughout the entire build process. He calculated specific dimensions, sizes, figures, and limitations crucial to the design. As an important member of the brainstowns a teach. member of the brainstorming stage, Ben helped prototype and develop our many concepts from the claw to the counterweight. Ben helped organize, plan, and create the PVC arm contraption as well as oversee our project's complex testing

Volovik, to complete the the daily notes of for the project during the bake sale. Lastly she helped prepare the poster.

Avel helped with building and finalizing the final design. He built the backboards that assist the pipe up. I also cut the PVC pipe that connects the backboards. He helped Lucas and other members drill in screws to hold the model in place.

majority of the ideas we used in our final design. He helped construct and test the final product. He is credited with the PVP claw part of the design.



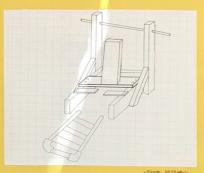
Objective:

In the "Upright Pipe Contest," the objective is to build a device that will lift a PVC pipe to an upright position. The device cannot touch the pipe when the timer starts, nor can it touch when the referee yells "stop." Each group is given one minute to lift the pipe to the upright position, and the team that lifts the pipe the fastest wins.



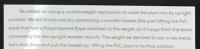








he pipe with a claw that would be timed to clamp onto the pipe. Once the claw grasps onto the pipe, the motor would rotate the pipe in a ninety-degree rotation and drop the



After some testing, we realized this prototype with the wooden basket is both too neavy to lift and the pipe was not stable upon landing into its upright position. We brainstormed a substitute material that could be used for the basket that would effectively lift the pipe. We decided that we should use two additional PVC pipes and egree PVC pipe elbows would be a good fit for what we needed.







