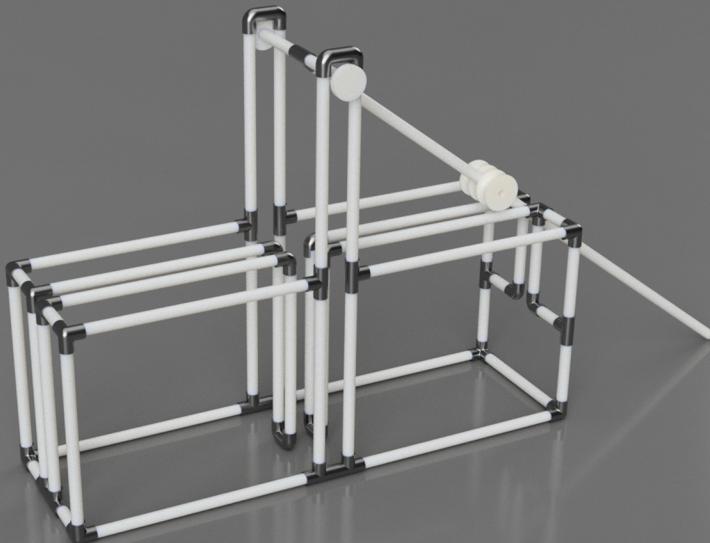


Floating Arm Trebuchet

Rev. Dec 12, 2016

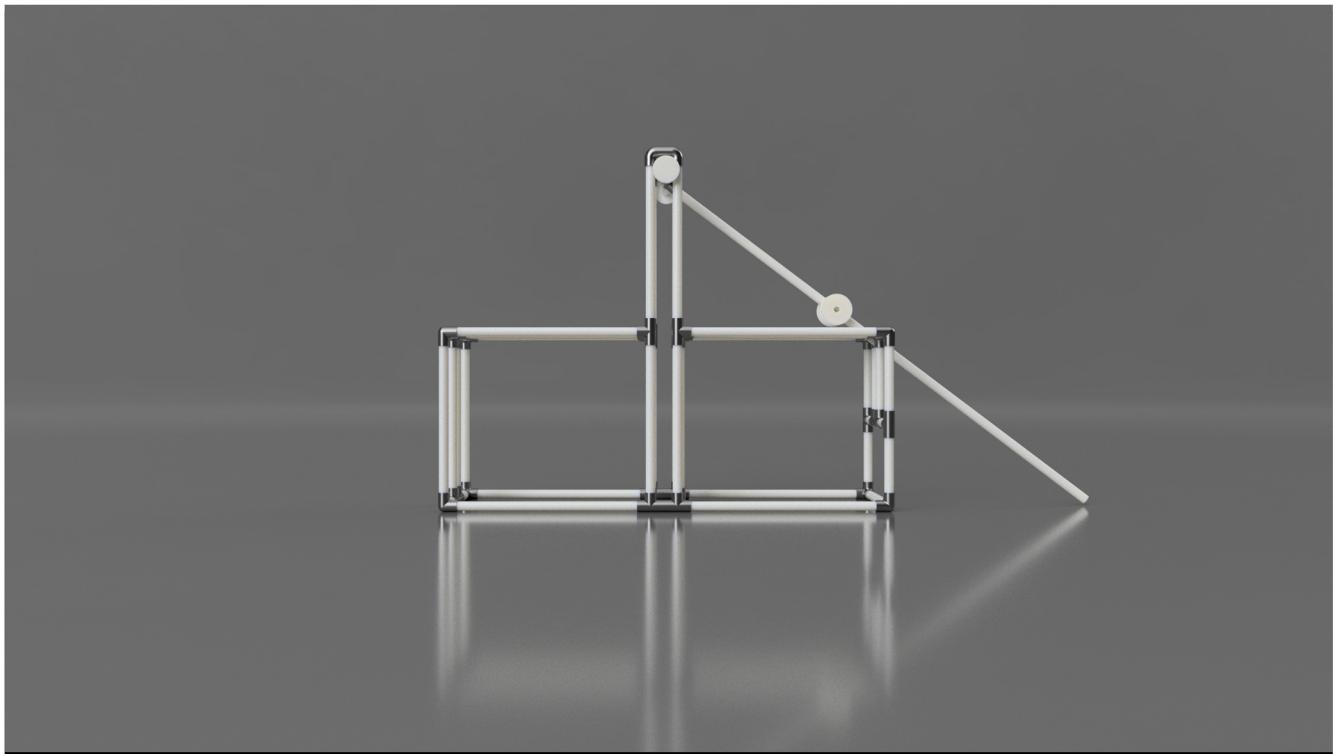


*Ben Russ, Vincent O'Neil, Charlie Wade, Cora Mihalick,
Steven Hitchens*

Periods 3 & 7 Physics

Design

Side



Top

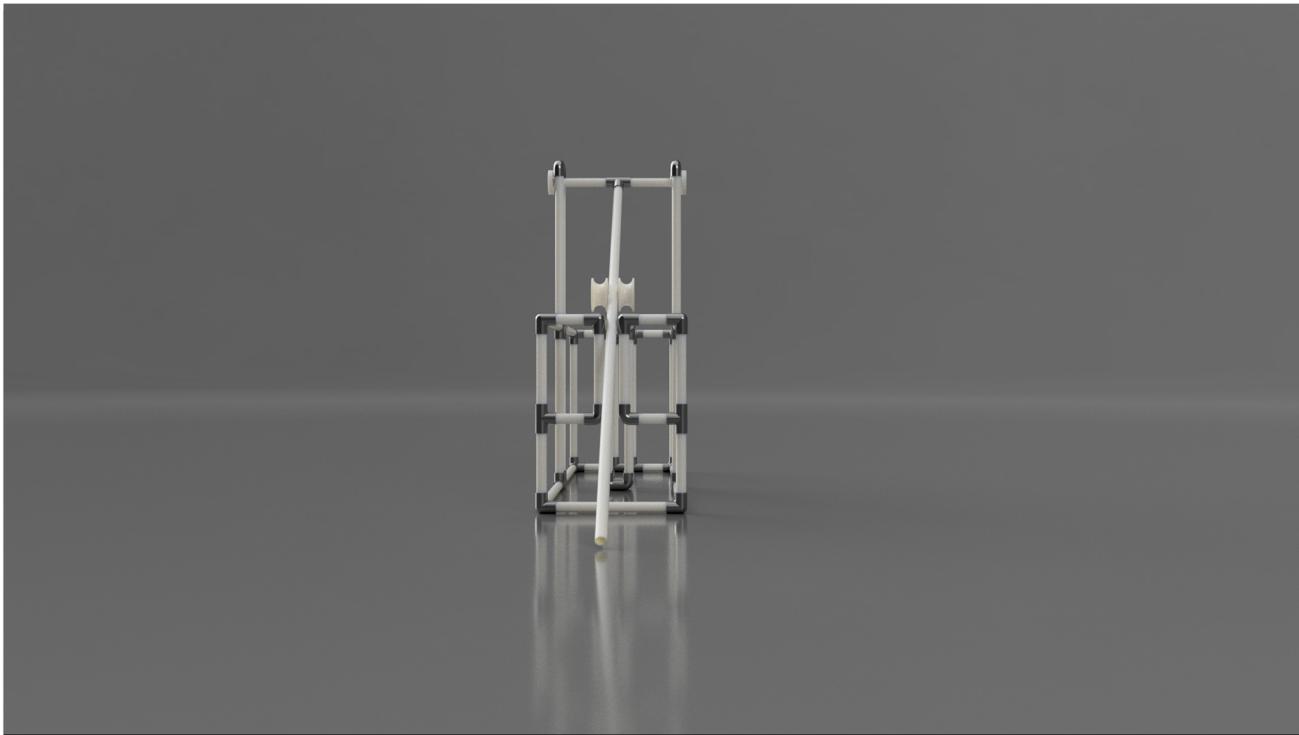


Design Cont.

Front



Back



Electronics

Hardware:

An Arduino Uno is used as a microcontroller connected to a custom made board that holds a real time clock and micro SD module. The ability to connect data sensors via i2c is supported by the logging system. A bluetooth transceiver is used to relay data from the Arduino to a custom Android application over a custom protocol. NeoPixel lights are strung across the bottom with support to chain more. The power system is 4 AA batteries with capacitors to support load. The ability to drive a motor of up to 20V 10A is available on board.

Software:

All software is available under the MIT open source software license at:

<https://github.com/mr-glt/TrebuchetLauncher>