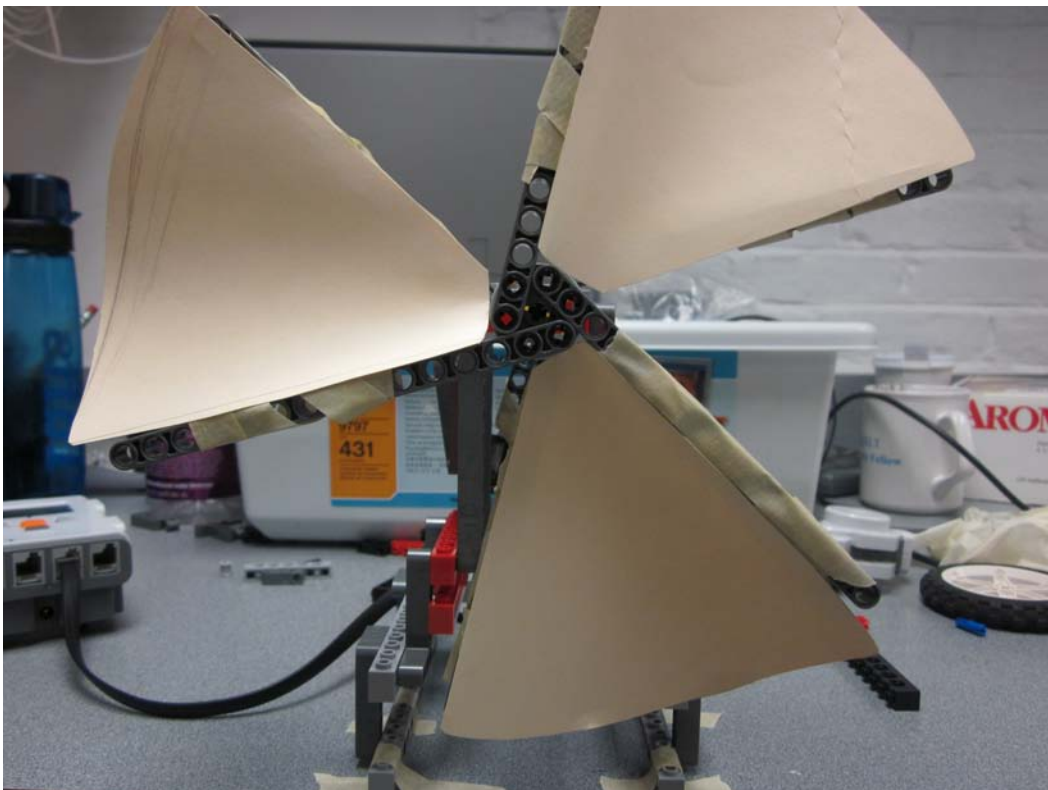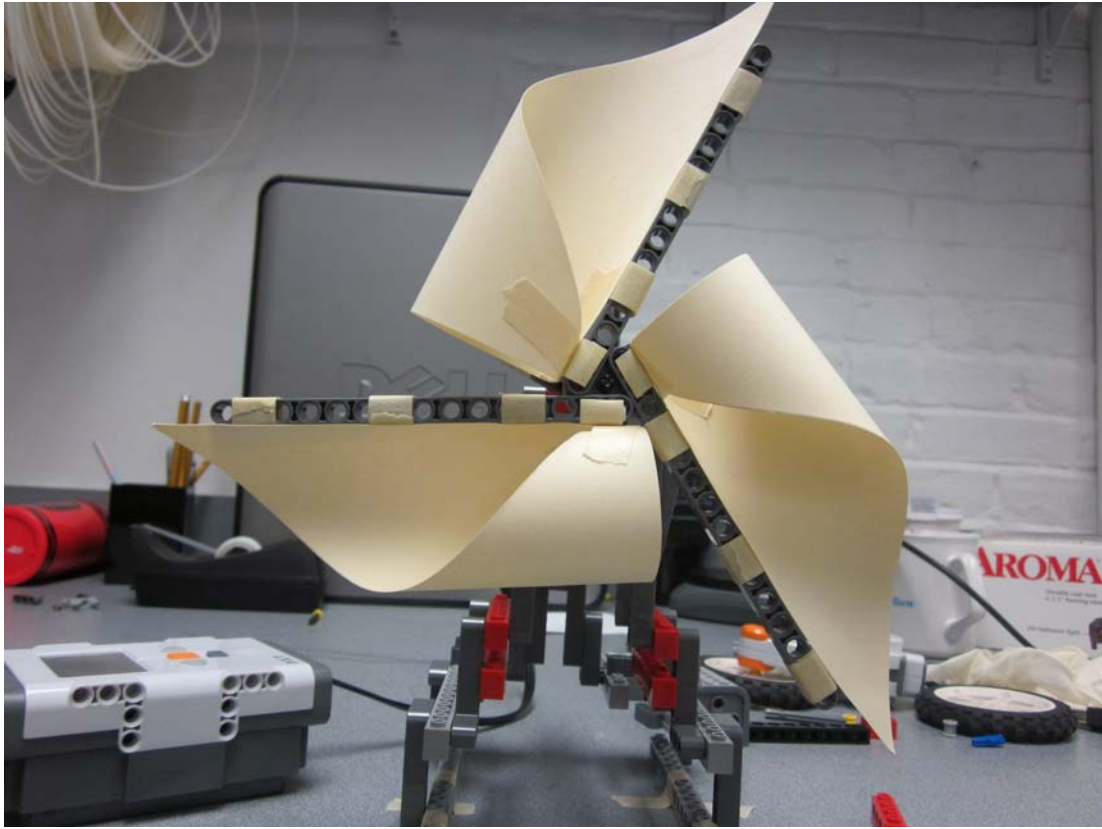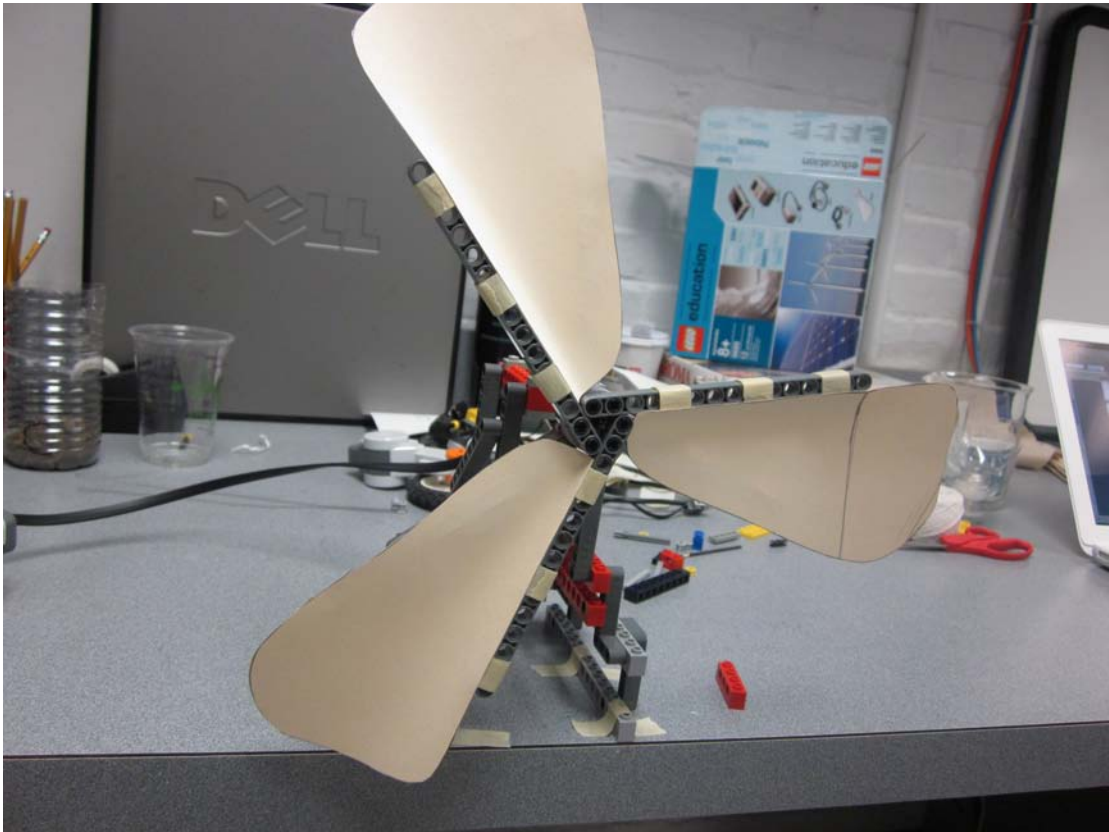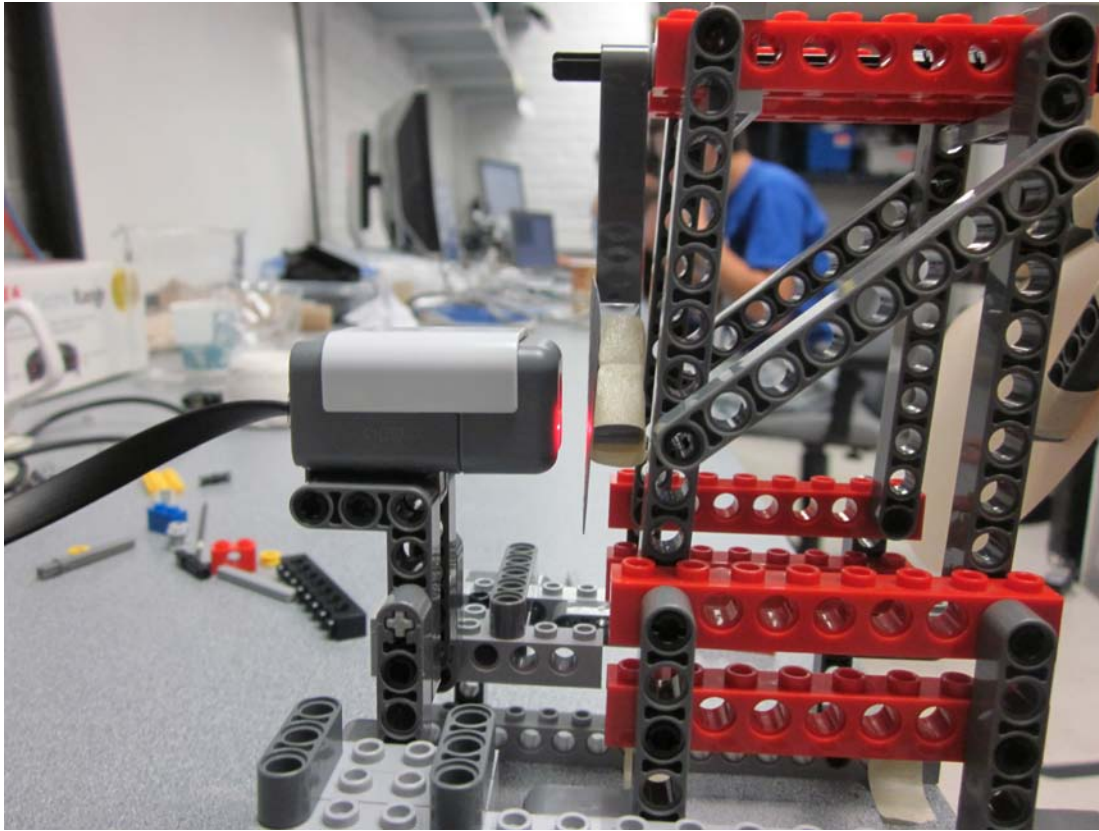(Windmill setup with fan)

(Fan Blade)

(Pinwheel Blade)

(Long Fan Blade)

(Light Sensor set up)

The light sensor is attached at the back of the turbine where it detects a black piece of paper every time the turbine makes a full rotation. By counting the amount of times the paper goes by and keeping track of the total time its possible to calculate rotations per minutes.

Additional Ideas:

-Use Popsicle sticks and straws, experiment with the sturdiness and weight of your support beams

-Use different materials for the blade, like printer papers or cloth

-Make sure to keep one factor consistent as a control