

MEETING MINUTES

6/8

- Action items; connor-what 3 exercises(movements) produce a higher output than cycling, yujie-research how humans exercise, daniel- how to store and employ energy, abdul-hydraulic accumulator, yen-not yet in class officially

MEETING MINUTES

6/9

- 2 methods of input- row+pedals
- Ask Trevas about time cards and other templates
- Pedals get it started, row to keep flywheel going
- Are we actually building it?
- Whats our actual power output to be expected
- Research stationary bikes for flywheel ideas
- Is it safe for a human to operate for extended periods?

MEETING MINUTES

6/10

- Regenerative braking for flywheel
- Eddie currents
- Team charter
- Self learning; yen-arduino, abdulh-load sensors, daniel-flywheel and equations related
- Engage contacts outside of engineering (exercise science)
- No time cards needed
- Put meeting minutes on website

MEETING MINUTES

6/15

- Action items: daniel-decide on useful clutch style, abdulh - decide on appropriate load cell, connor-find appropriate way to measure output, yen-absent, yujie-alternative energy storage (hydraulic accumulator)
- Stationary torque sensors won't work, use rotary
- Load cell is the "car" and strain gage is the "tires" in that system
- Omega has load cell tech specs, but amazon is a better option for purchase
- Assume 250 lb max output force from user
- Start generating design concepts

- Hydraulic powered bike contest for reference
- How will various input methods be combined
- Design flywheel to be light, but still retain same amount of energy
- As a rule of thumb, the body is about 25% efficient