

Staff Meeting - 8/27/21

- Team needs to determine a budget (\$1600 suggested)
- Choose an existing vehicle to design to or join other team
- Hardware Review soon
 - Can we have a completed working prototype?
- Meet perry at machine shop - Tuesday 5:00pm
- Next staff meeting on Wednesday in class

Staff Meeting - 9/1/21

Agenda

1. Timecard Questions
 2. Self-Learning
 3. Purchasing
 4. Hardware Review
- Suggested vehicle to use - Incomplete Bamboo HPV
 - See Perry Wood in the machine shop for questions
 - Self Learning
 - We need to choose bearings!!!
 - Yen - Hall Effect Sensor
 - Daniel - Clutch Materials
 - Connor - Clutch engagement mechanism
 - Yujie - FEA
 - Hardware Review
 - Make a mockup of the system on our chosen vehicle
 - Electrical Systems design
 - Current CAD
 - Working Prototype if possible

Team Meeting - 9/6/21

- Choose Vehicle
- Take measurements
- Discussed placement of system
- Hardware review tasks
 - Yujie/Abdulh - CAD
 - Connor/Daniel - Clutch and flywheel sizes, placement, actuation
 - Yen - Cardboard mock up

Team Meeting - 9/14/21

Agenda

CAD

1. Mockup
 2. Purchase Order
- CAD - we need the frame and clutch/flywheel
 - Yujie - Frame
 - Abdulh - clutch/flywheel
 - Mockup
 - Connor/Daniel/Yen - Machine shop at 12:30 tomorrow
 - Purchase Order
 - Pit Bike Clutch
 - Stock Steel
 - Electrical Equipment

Staff Meeting - 9/22/21

- Discussed revamping Engineering requirements
- Connor & Daniel to take apart the pit bike clutch and figure out how to use its parts for the design

Team Meeting - 9/27/21

- Finalize Clutch Design
 - Friction plate
 - Pit bike clutch parts
 - Spring
 - Actuator
 - Jaw clutch?
- Finalize Flywheel Design
 - Energy Equation Balance
- Design Shafts, bearings, chains, sprockets
 - Shafts x2
 - Flywheel/clutch shaft
 - Transfer sprocket shaft
 - Sprocket x4 (find new rear wheel)
 - Rear axle sprocket
 - Transfer sprockets x2
 - Clutch sprocket
 - Chain x2 (maybe 3)
 - Transfer chain x2
 - New drive train?

- Bearings
 - Needle bearing x1 - clutch actuator
 - Tapered bearing x1 - flywheel
 - roller/journal bearing x1 - clutch
- Design mount for Electrical stuff
 - Mount for magnet on wheel
 - Mount for sensor near wheel
 - Mount for display
- Fix Steering

Order of Importance

1. Flywheel design (energy, torque)
2. Shafts, Bearings
3. Clutch, sprockets, chains
4. Electrical mounts
5. Steering

Staff Meeting 9/29/21

Agenda

- Website Check - Due 10/1/21
- Implementation Memo - Due 10/8/21
- Midpoint Presentation - Due 10/15/21

Website Check

- Page for each person (portfolios)
 - Jobs
 - Internships
 - Projects
 - Resumes?

Implementation Memo

- Build something and make something work

Midpoint Presentation

- Testing designs for each ER

2 gear ratios for the clutch w/ derailleur?