

## SHEP PROJECT PLAN

### Next Meeting Agenda

- Review Tasks and issues - 10 min.
- Parts list, Costing and specifications - 5 min.
- Action Items- 15 min.

### Task/Issues List

PHASE 1 – “Frame, motor, Steering, Braking and Grid-re-charger”

Task#	Task Description & Decencies	Owner	Due Date	Status
1	Revise design and add detail so that it can be built. (Solidworks, calculation and budget) Consider: Human and Braking regen.	Ron	May 25	Green
2	Deep Cycle Gel Acid Batteries (3x12V), motors (2 hp) Exact dimension. * Selection with justification & Publish specification * Configuration and implementation * Deliver Digital +5 and Gnd  Optima – with local vendors Interstate battery – with local vendors	Tom/ Joel/ Gabe	May 11	Green
3	Speed Control Circuit (PWM & F/B control) Input: * Analog signal from the throttle (0 to 5v) * Directional Signal (0 volt – forward & 5 volt – backward) * Battery inputs (36 – 42V) Output: * Current and voltage to drive the motor forward and backward.	Hub/Tyler	May 18	Yellow?
4	Speedometer & Speed Control	Don/Sean	May 18	Green
5	Recharging system with battery monitor Input: * Line Voltage Output: * Power to the battery * Energy monitor	Julie/Sam/ Jonathan	May 18	Yellow?
6	Mechanical Steering and braking system Add design into the drawing & Decide on braking system (Disk on the axel) * 10 hp is the same as 125cc.	Esa	May 18	Yellow?
7	Commercially available belt/chain and sprocket for motor to drive wheel	Nicolle	May 25	Green
8	Wheel selection (Standard Bicycle type 20”) finalize by next date	Paul	May 18	Green
9	Requirements for Street Legal lights, windshield, red reflectors, Seat belt.	Don T.	May 18	Green
11	Suspension	Bryan	May 25	Red

Vendors: Pacific Metal – buy raw material.

**Future Enhancements:**

<b>Task#</b>	<b>Task Description &amp; Decencies</b>	<b>Owner</b>	<b>Due Date</b>	<b>Status</b>
1	Drive by wire Wireless) Input: digital signal Output: remotely run motor with speed control.	Kyle & Chris	May 24	
2	Power routing & Management system	Kamshad & Amir	May 24	
3	Dashboard Display (Min. 4 lines by 40 characters) Design 1 Input: digital (type (4 bit), data (8-bit)). Ideally accepts input serially. Output: Speed, energy, Trip meter, error status	Michael H. & Kevin D.	May 24	
4	Dashboard Display (Min. 4 lines by 40 characters) Design 1 Input: digital (type (4 bit), data (8-bit)). Ideally accepts input serially. Output: Speed, energy, Trip meter, error status	Michael A. & Pisnu & Phoung	May 24	
5	Regenerative Break + Human Power generator	Shane/Ricky/Alec	May 18	

Completed

<b>Task#</b>	<b>Task Description &amp; Decencies</b>	<b>Owner</b>	<b>Due Date</b>	<b>Status</b>
	Cutting the golf cart	Esa, Don T. & Don W., Tom, Kamshad, Gabe	May 8	

---

**Notes**

- 1) Description should include required input and output as well as the highest dependency.
- 2) Due Date: Next delivery date.
- 3) Status: Red (no known path forward); Yellow (behind but able to catch up); Green (on-track)