

MEETING MINUTES

Topic: Final Design Decision

Date, Time, Location: 07 November 2018, 5:30 PM, EGR Capstone Rm 108

Minutes Recorded By: Casi Garcia

Attendees: Husain Alsaffar, Casi Garcia, Derek Pacheco, Nicholas Schulz

Table 1. Record of Meeting.

Time	Topics Discussed
5:45 PM	<p>Discuss Analytical Analyses</p> <ul style="list-style-type: none"> - Casi Is it feasible? Yes. Would it generate enough power? No unless device is outside of dimension constraints. - Nick Is it feasible? Yes. Would it generate enough power? I think so... 0.5 V @ 100 mA ... if we can get it to rotate faster or use smaller magnets, it could work. Torque Required? Would need to calculate... Time required to charge? Theoretically, 15-20 hours Might be used fairly often. - Derek Is it feasible? Yes. Would it generate enough power? Crankshaft flashlight, 2.46 lb-in torque needed, 1-1 gear ratio, 140 rpm ... gear reduction? 3-1.25 gear, 60 rpm, 3 lb-in torque needed Friction? Would create torque. Need to calculate reverse. Time required to charge? 9 hours at 140 rpm. - Husain Is it feasible? Yes. Would it generate enough power? 120 Amps, 1000 rpm to generate? Voltage amplifier needed. <p>Noise? & Time usage? Discussed</p>
6:20 PM	<p>Final Design Chosen:</p> <ul style="list-style-type: none"> - Chair Generation - Improvements: Bearings ... - Future Analyses that need to be done? Alternator? Need specs. Multiple or nah? Torque Required? Multiple Chairs? Based on budget Gear Reduction? Budget????????????????? Need meeting.

	<p>Rocking? vs. Rotation? If budget & time is available next semester?</p>
6:25 PM (End)	<p>Where do we go from here? Its crunch time.</p> <ul style="list-style-type: none"> - Finish up analyses, they are due this Friday! - No class next Monday, we will meet though to begin final presentation. - What's going on the presentation? <p>CAD Package (All) BOM (All) How design meets customer requirements? : Casi Schedule for next semester: Casi Budget (All)</p> <p>Meeting: Next Tuesday with Oman Email Kayla.</p>

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date
Analytical Analyses	Team, Individual	11/09/18
Peer Evaluation 2	Team, Individual	11/16/18
Presentation Template	Casi	11/12/18
Final Proposal Template	Casi	11/14/18