

MEETING MINUTES

Topic: Design Evaluation

Date, Time, Location: 10 October 2018, 5:30 PM, Engineering RM 108

Minutes Recorded By: Casi Garcia

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

Table 1. Record of Meeting.

Time	Topics Discussed
5:30 PM	Design Evaluation <ul style="list-style-type: none">- Decision Matrix- Pugh Chart
5:35 PM	Pugh Chart Chosen Datum: Current Design, NAU Yellow Bike Criteria: Time Usage (5 min) – (plus) if people would spend a longer time on it than datum Max. Weight (100 lbs) – (plus) if it weighs less than datum Dimensions (3.5 x 6 ft) – (plus) if it is smaller than the datum Power Specification (120V, 60Hz) – (plus) if it can supply minimum power; should be same for most Power Generation – (plus) if it will generate more power than the datum Engineering Principles – (plus) if it can provide/ teach more principles # of Parts – (plus) if it can possibly have less parts than the datum Steps in Instructions – (plus) based on minimal steps Interactivity – (plus) if more different people will use more than datum Noise Decibels (50 db) – (plus) if it quieter than the datum
6:00 PM	Top 10 designs from pugh chart that are going into decision matrix <ul style="list-style-type: none">• Harp• Inverse speaker• Door generation• Chair generation• Calf Charger• Matching Game• CVT Model• Solar Charger• Charging (Tesla) Box• Sound Capture Clock
6:05 PM	Decision Matrix <ul style="list-style-type: none">- Made a percentage from customer weights to evaluate designs
6:25 PM	Top 6 designs from decision matrix <ul style="list-style-type: none">- Inverse Speaker- Matching Game- Chair Generation

	<ul style="list-style-type: none"> - Calf Charger - CVT Model - Sound Capture Clock
6:40 PM (END)	<ul style="list-style-type: none"> - Everyone is in charge of writing their own paragraph for the analytical analyses team memo - Analyses are to see if designs are feasible - Final design will be chosen after analyses are completed - Casi: Vibrational Analyses on Sound Capture Clock - Nick: Coil Analyses on Chair Generation - Husain: Power output for CVT Model - Derek: Gear Ratios for CVT Model

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date
Input Paragraph on Analyses	Team, Individual	10/12/18
Begin Presentation Layout	Casi	10/14/18