

# Senior Design Meeting

## Minutes - 11/2/22

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- Roger - pulled up meeting agenda
  - we need team status reports
    - can be done individually or by team leaders
  - Mechanical team - working on 3D model for review Monday and Tuesday
- Tim - power team - there is a schematic
  - trouble with the  $12 \rightarrow 6V$  simulation
  - plan is to go from  $12 \rightarrow 5V$ , the simulation is working properly
  - there will be a little bit of soldering to do
- Boris - if we use SMD boards we won't have to solder anything
- Tim - we can use the  $12 \rightarrow 6 \rightarrow 5V$  system if we build it to best it
- Roger - we should probably talk to Wey about which to use
- Alec - both options have good things about them, is it worth testing both
- Tim - yes, we can order parts to design both and test, will order parts this week
- Zheping - does Wey want resolution of movement as a speckle

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- Tim - we need a fuse for an H-Bridge
- Will O - I'm going to redo power calculations
- Borris - we'll be going off data sheets for arduino power consumption
  - Arduino team has made a lot of progress with the website
  - we need sensors for tracking the sun
  - we can order two types and see what works better
- Will A - the website is pretty much done until we have data to look at
- Borris - life is easier with no wind sensor, we're removing that as an aspect
- Roger - updated table of contents
- Haki - talk through table of contents
  - we need more schematics
  - we need exact info on the sun from Chike
- AK - we need to pick sizes for circuit boards very soon
- Haki - keep going through table of contents
  - we need to describe all figures
- Will A - Wey wants a flowchart of the arduinos

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- Roger - For Final proposal, we need a complete Bill of Materials
  - we also need a list of additional parts
  - let me know if you need parts and the timeline on when you need them by
  - have things done by Tuesday 8<sup>th</sup> so we can work on it together during lab
- Henry - have we updated the sensor list?
- AK - we can do that based on the updated Bill of Materials