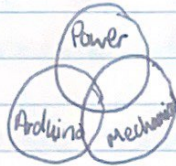


# Senior Design Meeting

## Minutes

10/21/22

- Roger - present agenda for meeting
  - Professor Wey is tired of our not doing our work, concerned for the final product
  - he wants better communication and regular meetings so we are able to work together better
  - we lack organization
  - we are going to form smaller teams so we have more structure
  - whenever you do something, send a message so we're all on the same page
  - these meetings will help us better function as a team
  - let's make real teams
  - currently we have mechanical, arduino
- Will O - we will need a power team but not yet
- Borris - we also need step-down to the arduino which would link the teams
- Zheping -



- Borris - arduino includes sensors
- Will O - wiring harness goes in the middle
- Zheping - Arduino includes wifi
- Borris - also it includes data

# Senior Design Meeting Minutes - continued

10/21/22

- Borris - we're gonna use data sheets for power consumption
- Zheping - solar tracking will be between Arduinos and mechanical
- Joe - Rotation will also go there
- Roger - we also need to figure out how to connect wires through the top
- AK - he does want detail in our Nov deadline so we have a lot to do
- Roger - after this deadline we will have presentation and purchase list
  - what goes in power?
- Borris - battery, converter, charge controller
- Zheping - kind of solar panel
- Roger - who is in the subsections?
  - administrative team - Roger, AK
- teams defined - see meeting agenda for details
- Ziqi - my work falls more under mechanical
- AK - I'll also do mechanical when we start needing 2D drawings

# Senior Design Meeting

## Minutes - Continued

10/21/22

- Roger - we need to figure out team leaders
- team leaders in bold on meeting agenda doc
- Roger - the team for power is a little small
  - added Borris and will O to the team
- AK - what if we meet with our team once a week, as a group once a week?
- Roger - we might need to also be meeting outside of class
  - update smart goals every monday
- AK - it could also be beneficial to have teams meet also with other group members
  - I'll make team slack groups
    - ⇒ made slacks
- Roger - the final proposal is due Nov. 9<sup>th</sup>
  - we need detail - drawings, exact numbers, cost, how it works
  - super in depth
  - Haki is doing overarching final proposal management
  - By Oct. 31 we need a detailed table of contents to give prof. Wey
  - need to focus on specs for the device, statement of work

# Senior Design Meeting Minutes - Combined

10/21/22

- AK- going forward, if you miss a meeting, I'll email you the minutes separately and just email me back to confirm you got them and understand what you missed, this will help with group being on the same page
- Roger - we need to figure out specific range of motion to set to meet our goals.
- Chiko - if we move where the linear actuator attaches we will have more degrees of movement
- Zheping - but can we change amount of degrees needed
- Borris - there's this glass that can help with less need for range of motion but it's too expensive
- Haki - are we doing the worm gear?
- Roger - linear actuators take up a lot of space on a device, we can have a much smaller range of motion than we originally thought
- Professor Wey is going to get us castors for us to try out
- we can make them a small track to follow - the motor doesn't have to be that strong

# Senior Design Meeting

## Minutes - continued

10/21/22

- Roger - we're using one linear actuator
  - arduinos aren't directly controlling the motors, H-Bridges are
- Borris - if you're getting parts, get through-hole parts
- AL - if components you're ordering have user's manuals, please pass those on to me so I can include that in a final user's manual
- Roger - The 18 watt number is a little funky
- Tim - please share info about power consumption so I can calculate things more accurately
- Roger - everyone just remember to communicate between the teams
  - Zheping + AL - work together a lot for the user's manual because a lot is the GUI
  - check the website, and give Roger resources to link on the website
  - there will also be a team leader chat on slack