

Schedule for Summer 2018 (Rolling Timber II)

Start update (July 18, 2018)	Who?	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Tasks to do		11-Jun 12-Jun 13-Jun 14-Jun 15-Jun	18-Jun 19-Jun 20-Jun 21-Jun 22-Jun	25-Jun 26-Jun 27-Jun 28-Jun 29-Jun	2-Jul 3-Jul 4-Jul 5-Jul 6-Jul	9-Jul 10-Jul 11-Jul 12-Jul 13-Jul	16-Jul 17-Jul 18-Jul 19-Jul 20-Jul	23-Jul 24-Jul 25-Jul 26-Jul 27-Jul	30-Jul 31-Jul 1-Aug 2-Aug 3-Aug
Introduction	All	█							
Team formation	All	█							
Team contract	All	█							
Questions for the client	All	█							
Important Event									
Client @ east instructor interview	All								
DUE - Team Contract	All		X						
DUE - Client Interview Questions	Mia		X						
DUE - Budget Draft	Walrod		X						
DUE - Product Requirement	Mia, Mia, Zak			X					
DUE - Project Schedule	Mia				X				
DUE - Portfolio, Wiki, Logbook	All					X			
Snapshot 1	All					X			
DUE - Design Validation Plan	Mia, Mia						X		
Design Review	All							X	
DUE - Project Value Proposition								X	
Snapshot 2									X
DUE: Portfolio, wiki, Team citizenship, Logbook									X
* Preparation for snapshot and any documentation									X
Mass Flow of wood chips									
1. Initial Testing the previous loadcell (LC302-25)	Mia, Mia								
Set up the circuits / Test	All								
Test the mechanical design	Faisal, Walrod, Zak								
Brainstorm a better ME design for the implementation									
Deny - Alternative idea (different sensor? ME comp?)	All								
Accept - Idea for further refinement	All								
2. Initial Testing the previous prototype (Woodchip mass flow sensor) with circuits, software, and testing equipment									
Receive the testing equipment from Mr. Scott	All								
Search 2 possible options for our power supply	Mia								
Order the best power supply	Mia, Mia								
Figure out how to use LabVIEW	Mia, Mia								
Test - Data acquisition by LabVIEW and proper input sensitivity	Mia, Mia								
Test - Obtain proper output voltage from LabVIEW	All								
Test - Obtain proper V _{out} by using power supply in 330 tab	All								
Modified ME design for the implementation (SW)	Zak								
Plan for calibration	Mia								
with less noise									
Check the linearity of mass vs V _{out} with Dr. Odum's strain indicator	Mia, Mia								
Test - Noise reduction with loadcell and LabVIEW	Mia, Mia								
Test - Acquire linearity of mass vs V _{out} from LabVIEW	Mia, Mia								
Test - Filter on LabVIEW	Mia, Mia								
Test - Try to apply Wheatstone bridge circuit and HW711 to our circuits	Mia, Mia								
Test - Try another type of Op-Amp in stock of AD524	Mia, Mia								
Test - Obtain math equation and insert it on LabVIEW	Mia, Mia								
3. Build new prototype for testing									
Build a new prototype based on Scott's drawing	Faisal, Walrod, Zak								
Attach loadcell with our new prototype	Faisal, Walrod, Zak								
4. Testing circuits and LabVIEW with the new prototype									
Test - Use calibration weights and measure mass vs voltage	All								
Test - Crank the auger at a certain speed, record a video to measure RPM, use test 8 to estimate mass flow rate	All								
Test - Crank again at some speed, measure RPM by recording a video, and actual mass of woodchips by using a measuring plate	All								
Brainstorm modification of our testing and data acquisition	Mia, Mia								
Brainstorm modification of our prototype	Faisal, Walrod, Zak								
Moisture Sensor									
Data acquisition (current output)	Mia, Mia								
Call the manufacture to ask what is wrong with our sensor	Mia								

Plan Changed a lot due to 2nd meeting

Plan changed so much due to 6th meeting

- yet to be done (not behind)
- yet to be done (behind)
- in progress (on time)
- in progress (late)
- finished