

WEEKLY MEETING AGENDA

Topic: Week 8

Attendees: Jessie, Brittney, Noah, Wesley, Randall

Please bring: Schedules, phones, and laptops

Meeting 1: Monday, March 2:30pm-3:00pm	Teams Meeting: Scheduling Plans for next 2 weeks and Client updates	Teams
Meeting 2: Wednesday, March 3 2:00pm-5:00pm	Building session: Building session: 2nd leak test, air velocity test, soldering	Jessie's Home and Home Depot
Meeting 3: Saturday, March 6 11:00am-3:30pm	Building session: cut down air HX, air velocity test, pump and liquid HX tests, researching methods for hooking up heating tape	Jessie's Home and Home Depot

Tasks to be completed prior to meeting:

Group Member	Task	Start Date	End Date

Upcoming tasks:

1. Technical Analysis for each team member (3/12)

MEETING MINUTES

Meeting 1 Topic: Scheduling Plans for next 2 weeks and Client updates

Date: Monday, March 1, 2021

Time: 2:30pm- 3:00pm

Location: Zoom/Teams

Minutes recorded by Jessie

Meeting called by Jessie

Attendees: Jessie, Noah, Brittney, Wesley, Randall

Table 1. Record of meeting.

2:30pm-2:50pm	Discuss Scheduling for upcoming 2 weeks. <ul style="list-style-type: none">• Discussion led by Jessie• The team decided on build days on Wednesday at 2pm, and Saturday at 11am. The team will work on their individual tech analyses on Monday. The team created an agenda for those days.• Jessie will get some sort of sealant for the gas can hole for Wednesday's build day
2:50pm to 3:00pm	Discuss Client Emails <ul style="list-style-type: none">• Discussion led by Wesley• Team will send presentation, an update, and a link to the website

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete

Next formal meeting: 3/6/21, at Jessie's house and on Teams with Noah, at 2:00pm.

Meeting 2 Topic: Building Session

Date: Wednesday, March 3, 2021

Time: 2:00pm- 5:00pm

Location: Teams

Minutes recorded by Jessie

Meeting called by Jessie

Attendees: All Group Members

Table 1. Record of meeting.

2:00pm-2:30pm	2nd Leak test <ul style="list-style-type: none">Team did another leak test on the liquid-to-air heat exchanger after fixing the soldering job the last meeting. This leak test also failed, so we did another soldering job. After this cooled, we did another leak test. This test succeeded.
2:30pm to 3:30 pm	Airflow/Air velocity test <ul style="list-style-type: none">Team performed an air velocity test, using the blower and a makeshift design to funnel the air from the blower into the heat exchanger to blow air through the heat exchanger. No air was coming out the outlet pipe of the heat exchanger.This meant the team had to reevaluate the design to get airflow through the heat exchanger.
3:30pm to 4:55pm	Brainstorming ideas for getting the air to flow through the heat exchanger <ul style="list-style-type: none">The team brainstormed and came up with several ideas, including finding a suction-fan to pull air out of the pipe, cutting down the heat exchanger, and creating a part in Solidworks to fit over the blower to tunnel the air into the heat exchanger.The team decided on 3D printing a part and cutting down the air heat exchanger. The in-person team members measured dimensions for the remote team member, Noah, and Noah created a part in Solidworks. The team then put in an order for the MakerLab at Cline Library to print the part.
4:55pm to end	Plan for next meeting <ul style="list-style-type: none">Aim for Saturday at 11am at Home Depot

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete
	All team members	9/9/19	9/9/19

		9/9/19	9/9/19
		9/16/19	9/16/19
		9/16/19	9/16/19
		9/17/19	9/17/19
		9/23/19	9/23/19
		9/23/19	9/23/19
	All Members	9/30/19	9/30/19
		9/30/19	9/30/19
		10/2/19	
		10/7/19	

Next formal meeting: 3/6/21, Home Depot, at 11:00am.

Meeting 3 Topic: Build Day

Date: Saturday, March 6, 2021

Time: 11:00pm- 2:00pm

Location: Teams

Minutes recorded by Jessie

Meeting called by Jessie

Attendees: All Group Members

Table 1. Record of meeting.

11:00am-11:20pm	Cut Down Air Heat Exchanger <ul style="list-style-type: none">Team cut down the size of the air heat exchanger and put a sharkbite straight couple fitting to connect it back together
11:20am to 11:40 pm	Evaluate 3D printed Blower Part <ul style="list-style-type: none">The team found that the 3D printed part was a little too wide to completely fit the blowerThe team took out the inside grate in the blower that might slow down the airThe team tested air velocity of the part in different positions and onsets when resting over the blowerThe team found that offset on one side, the blower had the least amount of air leaking out of the edgesThe team put gorilla tape on the part, connecting it to the blower and sealing off any open areas
11:40am to 12:50pm	Airflow/Velocity Test <ul style="list-style-type: none">Tested the airflow. Found that air did pass through the heat exchanger with the blower blowing into it at 1.2 m/s. The most efficient blower speed was the middle speed rather than the highest or lowest speed.

12:50pm to 1:10pm	Cutting/Soldering piping for new air heat exchanger <ul style="list-style-type: none"> • Cut down the top piping of the air heat exchanger, so it will come out at the right spot from out of the tank into the gas can. A new elbow fitting was soldered onto the end.
1:10pm to 2:10pm	Test Pump/Liquid Heat Exchanger <ul style="list-style-type: none"> • Tested the pump, and it had some issues. The key to making it work was to have a constant supply of water that is either elevated or level with the pump. If the water supply is below the pump, it will not be able to easily suck in water. • The liquid heat exchanger was placed in the tank, and the team put water inside the heat exchanger. The reservoir was then filled, and the pump was connected to the reservoir. The reservoir and pump were placed onto the platform, and the pump was run. Water successfully ran through the heat exchanger with good pressure and speed.
2:10pm to end	Brainstorm how to make heating tape work and look at home depot <ul style="list-style-type: none"> • The heating tape requires open wires to be powered and will need 240V for maximum power. • The team went to home depot to find options and purchased an electrical plug that the wires can be connected to. The team will have to monitor the temperature of the heating tape. • Team will meet on Monday to finish up piping for the heating tape and to test the heating tape.

Next formal meeting: 3/8/21, Jessie's Home, at 1:30pm.
Next members responsible for agenda: Randall Holgate