

MEETING MINUTES

Topic: Second semester kickoff

Tuesday, August 28, 2018

3:45 pm – 4:30 pm

Minutes recorded by __Jacob Barker__

Meeting called by __Samm Metcalfe__

Attendees: __Jacob Barker, Samm Metcalfe, Ashley Shumaker (+David Willy)__

Please bring: __n/a__

Table 1. Record of meeting.

<p>3:45 pm to 4:00 pm</p>	<p>Meeting w/ client David Willy</p> <ul style="list-style-type: none"> • Review of Summer Team’s Project <ul style="list-style-type: none"> ○ Not very successful, never saw device run <ul style="list-style-type: none"> ▪ Doesn’t collect measurements as desired ▪ Doesn’t have stand/cart ▪ Not very useful in classroom ○ Can reuse some components <ul style="list-style-type: none"> ▪ Pressure transducers & DAQ ▪ Air compressor & tank ▪ Band heater if desired • Client wants for this semester <ul style="list-style-type: none"> ○ More calculations for velocity triangles ○ Thermodynamic equations ○ Euler turbomachinery equations 	<p>Room 324C</p>
<p>4:00 pm to 4:15 pm</p>	<p>Proposal Rewrite: Testing procedures</p> <ul style="list-style-type: none"> • Review egr requirements to develop testing procedures for each <ul style="list-style-type: none"> ○ Space requirement <ul style="list-style-type: none"> ▪ Measure ○ Weight requirement <ul style="list-style-type: none"> ▪ Weight ○ Pressure and Temperature measurement <ul style="list-style-type: none"> ▪ Verify sensors collecting reasonable measurements ○ Operation Time <ul style="list-style-type: none"> ▪ Charge compressor, measure cycle time ○ Clear outer casing <ul style="list-style-type: none"> ▪ Visual test ○ Power source requirements <ul style="list-style-type: none"> ▪ Plug in to verify proper operation ○ Safety requirement 	<p>EGR 3rd floor study area</p>

	<ul style="list-style-type: none"> • Visual test, secure all fasteners <ul style="list-style-type: none"> • Then surround test area with tissue paper, run demonstration and check for damage ○ Longevity requirement <ul style="list-style-type: none"> • Assume maximum of 5 uses per semester. Run through 50 cycles to see what breaks 	
<p>4:15 pm to end</p>	<p>Implementation of Tasks</p> <ul style="list-style-type: none"> ○ Complete tests with Thermo 1B design 9/9 ○ Finalize design September 16th ○ Order parts by September 19th ○ 3d printing by October 7th ○ Complete Testing by November 3rd ○ Final Poster 11/5 ○ Final Report/CAD package 12/3 	<p>EGR 3rd floor study area</p>