

# MEETING MINUTES

## Topic: Individual Analytical Reports/Updates

Wednesday, October 10, 2018

5:00 pm to 6:00 pm

Minutes recorded by Jacob Barker

Meeting called by Jacob Barker

Attendees: Jacob Barker, Samm Metcalfe, Ashley Shumaker

Table 1. Record of meeting.

<p><b>5:00 pm to 5:15 pm</b></p>	<p><b>Individual Analysis Progress</b></p> <ul style="list-style-type: none"> <li>• Jacob: Blade deflection/stress analysis             <ul style="list-style-type: none"> <li>○ Was not able to complete FEA analysis</li> <li>○ Spoke with Amy and got approval for simplified beam analysis</li> <li>○ ~95% complete</li> </ul> </li> <li>• Samm: Heat Transfer Analysis             <ul style="list-style-type: none"> <li>○ Has not started</li> <li>○ Needs to borrow Jacob's Heat Transfer Textbook</li> </ul> </li> <li>• Ashley: Shaft Analysis             <ul style="list-style-type: none"> <li>○ Not started</li> </ul> </li> <li>• **Don't forget Amy is a good resource for analyses</li> </ul>	<p>Capstone Room</p>
<p><b>5:15 pm to 5:45 pm</b></p>	<p><b>Discussion of Current Happenings</b></p> <ul style="list-style-type: none"> <li>• Test fitment piece has been redesigned with larger diameter             <ul style="list-style-type: none"> <li>○ Currently printing at library</li> </ul> </li> <li>• Midpoint Report due 10/19             <ul style="list-style-type: none"> <li>○ Meet again Friday to begin working</li> </ul> </li> <li>• Midpoint Presentation due 10/29</li> <li>• Cart ready for paint             <ul style="list-style-type: none"> <li>○ Jacob will do this, try to match NAU colors as close as possible</li> </ul> </li> <li>• LabVIEW programs             <ul style="list-style-type: none"> <li>○ Need calibration curve for transducers</li> <li>○ Contact current team and Transducers Direct</li> </ul> </li> <li>• Printing Tolerances             <ul style="list-style-type: none"> <li>○ Try printing with minimum resolution</li> </ul> </li> <li>• Secondary air tank             <ul style="list-style-type: none"> <li>○ Measure cart to check remaining space available</li> </ul> </li> </ul>	<p>Capstone Room</p>
<p><b>4:40 pm to end</b></p>	<p><b>Task Assignments</b></p> <ul style="list-style-type: none"> <li>• Ashley             <ul style="list-style-type: none"> <li>○ Finish analysis</li> <li>○ Buy remaining tubing for pressure manifold</li> <li>○ Pressure measurement LabVIEW program</li> </ul> </li> <li>• Jacob</li> </ul>	<p>Capstone Room</p>

	<ul style="list-style-type: none"><li>○ Paint cart</li><li>○ Thermocouple LabVIEW</li><li>● Sann<ul style="list-style-type: none"><li>○ Finish analysis</li><li>○ 3D print blades</li><li>○ Design stand for acrylic tubing</li></ul></li></ul>	
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