

MEETING MINUTES

Topic: Approach Possibilities/Scheduling

Wednesday, January 31, 2018

12:00 pm – 12:40pm

Minutes recorded by Jacob Barker

Attendees: Jacob Barker, Samm Metcalfe, Ashley Shumaker

Table 1. Record of meeting.

<p>12:00 pm to 12:10 pm</p>	<p>Discussion of Project Possibilities</p> <ul style="list-style-type: none"> • Turboprop <ul style="list-style-type: none"> ○ Could have interchangeable turbine/compressor ○ Interchangeable propellers ○ Different gear ratios-see how it affects thrust ○ Most "different" application of Brayton cycle • Natural Gas generating unit <ul style="list-style-type: none"> ○ Could demonstrate power generation with lightbulb ○ Similar to turbofan ○ Difficult to generate power without actual combustion 	<p>Outside EGR</p>
<p>12:10 pm to 12:25 pm</p>	<p>Discussion of Project Timeline</p> <ul style="list-style-type: none"> • Assignments/Milestones <ul style="list-style-type: none"> ○ Schedule/Budget ○ Customer Needs ○ EGR Requirements ○ House of Quality ○ Design Research ○ Functional Decomposition ○ Designs considered ○ Selected Design ○ Analytical Report ○ Final presentation & report ○ Proposed Design ○ Final CAD Package ○ Website deliverables 	<p>Outside EGR</p>
<p>12:25 pm to 12:30 pm</p>	<p>Benchmarking</p> <ul style="list-style-type: none"> • Compare with online animations • Actual turboprops • R/C applications 	<p>Outside EGR</p>

12:30 pm to end	Budget Items <ul style="list-style-type: none">• 3D printing• Cart• Air compressor and tank• Other off-shelf parts?• Estimate budget between \$500-\$1000 max• Samm has RC plane parts, may be useful/save money	Outside EGR
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