

MEETING MINUTES

Topic: Review of Initial Research

Tuesday, September 19, 2017

6:55 pm – 7:17 pm

Minutes recorded by: Jeremy Tilden

Meeting called by: David Trevas

Attendees: Andrew Robinson, Isaac Keene, Adam Wedell

Table 1. Record of meeting.

6:55 pm – 7:05 pm	Strain <ul style="list-style-type: none">• What kind of strain gauge• What force to keep the jet engine put• What range for resistances<ul style="list-style-type: none">o Range 300, 350, 700 etc.• How strain gauge bonds to surface will tell how accurate• Look into parameters, know what parameters you need for this application• Microstrain.com, Micro-measurements.com• Know ranges before selecting gauges• Steady state method	duBois, Room 11
7:05 pm – 7:10 pm	Manufacturing Materials <ul style="list-style-type: none">• 12"x12"x18" max 3D print size• \$14 per kilogram• 6 different colors for different parts• Need to design for rotational speed• Steel shafts, blades would be 3DP	duBois, Room 11
7:10 pm – 7:15 pm	Flow <ul style="list-style-type: none">• Mass air flow sensor• Keil probe• Output velocity• Annameter (speed)• Temperature change with pressure change• Do energy balance for pressure• Measure velocity coming out, Bernoulli's equations	duBois, Room 11
7:15 pm – 7:17 pm	Further Research and Development <ul style="list-style-type: none">• Goals, restraints and requirements for our design• Need these requirements to get the right sensors	duBois, Room 11
7:17 pm	Additional Comments <ul style="list-style-type: none">• Funding information:<ul style="list-style-type: none">o Should have sufficient funding for this project	duBois, Room 11

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete
List requirements	Everyone	9/25/2017	

Next formal meeting: 9/26/2017, Room 11, duBois Center, at 5:30 pm.