

MEETING MINUTES

Topic: ME 476C – Staff Meeting 4

Thursday, January 31, 2019

Time: 4:50 - 5:10

Members present: Chadrick Jennings, Nicholas Norris, Seth Mabes, Noah Wick, Mr. Willy, Ms. Swartz

4:50-4:53	Discuss any questions regarding website check 2 Seth asked about updates to the website. David Willy expressed our site was looking good. Seth asked about maps, it seemed location maps are not a high priority for now. Can Seth help other teams solve some issues with their websites?	DUBOIS 30
4:53-5:00	Discuss current state of project First 3D printed model shown to Willy and Amy. Geometry was checked against research. Positive feedback regarding model. Willy suggested merging bodies in solidworks to enable shell feature, possibly eliminating sweep and using only loft, possibly lengthening aorta inlet. Casting method discussed. Early prototyping has begun with 3D printed model.	DUBOIS 30
5:00-5:05	Discuss Progress on Analytical Reports 3D CAD model report can include fluid flow analysis through shelled solid model. Cost analysis could include DFMA. Materials analysis proposal a little vague. Modulus of elasticity of silicone difficult to determine because it's an elastomer. May exhibit viscoelastic properties Bernoulli analysis could include determining required lengths of inlet (aorta) to get fully developed flow through bifurcation.	DUBOIS 30
5:05-5:10	Discuss Prototyping Status First iteration of CAD model complete and printed. Need another model with internal dimensions. Seth mentioned using low cost methods to create early prototype. Willy suggested possibly prototyping with proposed casting method and materials using scaled down models to determine feasibility while keeping cost down. Vacuum pump: Jim Corning with Novakinetics may be able to help.	DUBOIS 30

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Upcoming requirements:

1. Individual Analytical Reports
2. Website Check 2

Tasks to be completed prior to meeting:

Group Member	Task	Start Date
All	Begin work on analytical reports if possible	3/25/19