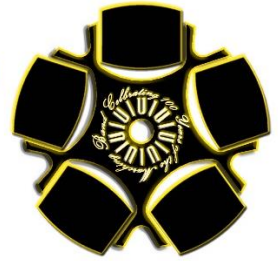




THE BEAST



Mentor Meeting #4

Tuesday, July 09, 2019

AGENDA

<u>Topic</u>	<u>Item</u>	<u>Resolution</u>
Old Business		
New Business		
	1. Project Portfolio	1. 3 overall. Problem Definition and Design Solution Need Work
	2. Wheel Assemblies (Will)	2. Finalized Design with Multi Pivot and Spring. Allows for wheel to remain perpendicular to the ground with compression. 8020: 2x1 preferred due to the doubling of price for 2x2. Alimnus in Bay (Rathdrum) will let us salvage his scap to save money. Swenson: Likes 8020 and 4 bar linkage. Bill will weld aluminum. Flanges will probably be welded on. Need concentric holes on 4 bar linkage. Spring and damper off the shelf (Amazon). Swenson suggested Century Spring potentially. Nick or Will perform load analysis on 4 bar linkage under worst case loading. Swenson suggests SF=3.
	3. Frame (Nick)	3. Lattice Structure of 8020 with 45 deg on corners for wheel attachment. Swenson skeptical. He would like to find a better way than angles. Swenson likes the idea of a bolt on adapter/attachment better.
	4. Gear (Nick)	4. Nick needs to know the definition of the serial/part number. H=? $\frac{3}{4}$ shaft diameter. 35 = gear type, B= teeth type, 32=teeth, one other one I can't remember. Try to find vendor outside of MMC.
	5. PCS (Chris)	
	6. Design Review (All)	