## Northern Arizona University Society of Automotive Engineering 2017-2018 Baja Team

## Meeting Date: November 27, 2017

Start Time: 7:40 AM

## Members Not Present: Jordan Sudin

Frame

Update:	Not going to use the aluminum seat The part where you sit needs to be somewhat horizontal Looking at 10 ply for the seat 5 ply for the seat covers
Future Tasks:	Finish up the frame
Questions:	N/A
Front Suspension	
Update: semi-	We are gona go with no parallel A-arms Camber change through the roll is minimal Change in bump is small We are going with Front steer Steering box prototype second piece has been machined ADS not getting back Front end tires going with 23 inch tires with 10 inch rims
Future Tasks:	Start throwing lotus designs into Solidworks
Questions:	Get shock parameters to the rear end lead

## **Rear Suspension**

Update:	Done with how we want the design to look Machined aluminum lower Aluminum knuckle and spinel 23 inch tire size and 10.5 inch rims Trying to shoot for as much tire impact as possible For better travel 3 in hopefully Through gage recommended values we are looking at about 38 mph with
Future Tasks:	23in tires Two sets of aluminum and an extra steel set Just finish the geometry Trying to do FEA There is a way to link Solidworks and Ansys together
Questions:	N/A

Drivetrain

Update:	CVT came in
	Back shifter is on back order
	Bought the axels
	Almost done with second iteration of the gear box Complete with roller paper bearings
	Retaining rings
	Actual shafts
	The face width of the gear is 1.5
	Casing is ¼ inch
	Be on drop box soon
	Chromoly
	With the CVT there is no splines it is however keyed
Future Tasks:	Finishing the second iteration
	Putting it into Ansys
	Finish drive train and mounting
	Finish gear box design cover
Questions:	Have a frame mock up?
	How long is the engine?
	Thought about CVT housing air cooled?

**Team Business** 

Old Business:	Got CVT
	Got engine order filled out just need Trevas' signature
	Going to be done by the end of the week
	\$460
	Work schedule is the fourth of January 9 to 4 till Sunday if we prove that
	we used the shop effectively we can push that to 9 to 6
	See how much money we have
New Business:	We have to get the cad finished
	New due date
	By next week's Monday meeting
	Frame information by Friday
	Two machine shops in town
	Get brooks contact some designs for input
	He would like to come in once we start building
Fundraising:	Marketing manager at Toyota should have more information now that it
is 4 <sup>th</sup> qu	uarter
	Talked to a guy at home co /
Comments, Question:	s, Concerns: Any capstone work ?
	Lots of stuff due next week Friday
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