

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

Meeting Date: November 5, 2017

Start Time: 7:08 pm

Members Not Present: NA

MOVE FRAME UPDATES TO BEGINNING OF MEETING

Front Suspension

Update: Lotus Work – Limit Bump Steer

Future Tasks: Solidworks after Lotus Simulation finalized
FEA on Components

Questions: N/A

Rear Suspension

Update: 3rd Double A arm Iteration
Knuckle MFG In house
2 degrees of camber

Future Tasks: Bearing/bushing Selection
FEA on Components
Primary/ Secondary tubing
Spindle to knuckle interface
Geometry locations set

Questions: LOTUS? – translate rudimentary program to Lotus
Frame can help with ANSYS Analysis
Length of driveshaft for Drivetrain – Estimate by mid-week

Frame

Update: Picked Tubing sizes – Primary – 1.25 OD WT 0.065

Secondary - 1.0 OD WT 0.058
Donated through Dylan's Contact - \$661.00
Next Frame iteration underway
PVC from Home Depot – prototype frame mockup
52 lbs

Future Tasks: PVC Build
Definitive Frame iteration
Complex FEA

Questions:

Drivetrain

Update: Helical Gear Calc – 80%
Max torque 351 ft-lbs
Key Calculations

Future Tasks: Shaft Design
Driveshaft Analysis

Questions: Brake Calculations – Need Fine Tuning

Team Business

Old Business: Engine Order? – Dr. Tester says wait to see if we can get Funding
Update to the engines are made every year
Vote on Purchase a New Engine – **Unanimous YES**
\$383 for 16 people – Not Accounting for Food

New Business: Vote Next Meeting on Departure Date and Time
SAE Deadlines
Capstone Report Due Friday – Last Year's SAE Rubric
Presentation Wed
ASNAU Funding – **NOV 17**
Questions on Rules etc... Email Zachary
Use Trusted Sources for ANY Values you use in Calculations – Cite it!
New Meeting Times: Monday and Fridays at 7:30 AM – Sundays Up to

change

JunkYard on the Weekend!

Fundraising:

Keep it Up!!

Keep up with the Excel Sheet!

2 per week per person

W9 to Honda this week!

Baja in the 4th of July Parade and around Flagstaff in General

ADS Suspension

Comments, Questions, Concerns: