



ME 486C – Capstone II
Tentative Team Information Moving Forward
Spring 2020

Please answer the following questions as best as you can right now. It is fully understood that this information is tentative and subject to change.

NOTE: As of right now, we are closing Building 98C's Machine Shop to student use until further notice. There will be opportunities to still contract with the Shop Managers to have work done at this time. We will reevaluate the situation in a few weeks time.

1. Please list where each team member will likely be residing for the remainder of the semester (feel free to list several locations if you plan on moving around).
 - a. Note: Dr. Oman will NOT require you to be on campus for the remainder of this semester. This information will simply aide in ensuring all members know where their teammates will be and allow Dr. Oman to plan accordingly for online meetings.
 - b. State what timezone your location(s) is/are in as well

<u>Team Member</u>	<u>Location(s) and Respective Timezones</u>
Shamlan Albahar	Home at Flagstaff, AZ or Home at Kuwait (+10 hrs. Difference from Arizona). If I will be travelling back home, I will notify the team prior to that.
LeAlan Kinlecheenie	In Ganado, AZ (one hour ahead of Flagstaff) or might go back to Flagstaff, AZ (if needed).
Drew Stringer	Flagstaff, AZ at home
Fahad Alhowaidi	Home at Flagstaff, AZ or Home at Kuwait (+10 hrs. Difference from Arizona). If I will be travelling back home, I will notify the team prior to that.
Andres Parra	Flagstaff, AZ

2. Please state where all the parts and components are currently stored that you already have for your capstone project. Be as detailed as possible.
 - a. Feel free to use the BOM and attach as an appendix if that would be easier (then just add a column of Location). Otherwise, a general list will suffice (such as “most items are in the machine shop in Locker 12B, but the pump and valves are in Tony Stark’s garage”).

The majority of the teams’ parts are in room 105 in building 98C. We do have the brake lines that need to be picked up at GOAZ motorsports. Andres also has the trailing arms and the plastic for the firewall. There are non-essential parts that are in 47A. Everything that is needed to finish our car is in our possession or in building 98C.

3. Breakdown all the tasks that still need to be completed to manufacture and assemble your physical system to be 100% complete. [No need to include non-physical capstone deliverables such as reports and CAD package here.]
 - a. **Within this breakdown, include for each task whether it can be:**
 - i. **completed by the team without needing access to Building 98C's machine shop**
 - ii. **completed by a Building 98C Machine Shop shop manager if you put in a work order**
 - iii. **completed by outsourcing to a local or national company that is still open currently.**
 - iv. **Listed as future work that another team would need to complete after the semester is over.**
 - v. **[or other options that you may think of]**
 - b. Consider what actions need to occur for these tasks to be completed as well and include that when necessary
 - i. For example, you may need to specify "if someone could pick up the raw material delivery in the Engr. Building and take it to 98C, then we could have the shop managers mill this part"
 - c. If you're willing and able, please also include information about how much testing has been completed and what testing remains to be done.
 - i. Note, again, that in-person testing will NOT be required. Dr. Oman simply needs a breakdown of what has been done and remains.
 - d. You don't have to use the following table if you have better way to communicate this information.

<u>Task</u>	<u>How can it be completed?</u>
Mount front brake lines	Need physical access to the car to attach lines
Need to manufacture brackets to mount the trailing arm	Need access to car to get dimensions and access to shop to get parts made
Mount trailing arms on mounted brackets	Need physical access to the car to attach parts
Finish manufacturing of gearbox	Drew is in the process of creating this part at a local shop in town
Mount electronics	Need physical access to the car to attach parts
Finish mounting brackets for rear hubs	Need access to car to get dimensions and access to shop to get parts made
Mount rear hubs/wheels	Need physical access to the car to attach parts
Build battery box	Can be completed outside of shop
Attach battery box using drawer slides	Need physical access to the car to attach parts
Attach rear shock mounts	Need trailing arms on prior to get dimensions and shock location. Need access to shop and car to create parts
Manufacture bearing blocks for rear drive line	Using shop resources
Attach rear firewall	Need physical access to the car to attach parts

4. Please state any other information that you'd like Dr. Oman to know from the team.

Our two foreign team members, Shamlan and Fahad have been quarantined by their government and aren't allowed to leave their house/apartment.

Our teammate LeAlan is quarantined in his hometown (2 hrs away).

Some of the manufacturing could be done at Drew's house or a local shop by only Drew if that were allowed. This would also require extra time due to only having one person manufacturing.