

Meeting #11

Date: 10/14/19

Time: X:00-X:00 PM

Location: EGR

Agenda:

- Register in the morning

Meeting Notes:

- Here's the dirty lowdown (as Alex and I understand it):
- The team "Ponderosa Pilots" is registered on the waitlist under my name with NAU. We are team number 49. The confirmation email suggests that the registered teams are numbers 1-42ish, so I think we're only about 7 slots behind.
- All of us will need to affiliate with the team on the SAE website. Tester and ONE of us will need to affiliate on the SAE Aero West page (this is where we will submit documents). Alex and I tried to affiliate this morning, but our team isn't listed yet. It is unclear why, but we suspect we won't be able to affiliate until Tester registers or until we get off the waitlist.
- Best case scenario, a bunch of people fail to pay the fee in the next 48 hours, and we get in. If not, we need to make sure to still submit all our documents to stay on the waitlist. In the "Registration" folder in the Drive, I put pdfs of the confirmation documents, and a page with notes if anyone wants to read over them for themselves.
- <https://www.sae.org/attend/student-events/sae-aero-design-west/teams>
- UPDATE: we are 4th on the waitlist
- See "Jacob Notes" in Registration folder for more items

Tester Notes:

- We'll get in within 2 weeks after some people can't pay
- Just wait until we're on the actual list and then we might be able to affiliate
- If SAE contacts us
 - Tell them Tester is having trouble
- If we've got a big ball, wing drag is not a big issue
- Minimize drag and put the balls in the wing
- Ball in line with wing = more turning stability
- CFD book will have aspect ration
- Deep wing has drag, needs to be fast to get off ground, we won't go fast enough
- If battery has enough amperage, double prop
- Big prop=more thrust, but is there room? Too big = too much drag and the prop won't get up to the right speed

- Best lift: curvey, charts are idealized with sharp edges, we won't be able to get it sharp

- Glue a sharp trailing edge on the back
- Simply support a wing a put a 40lb weight on top and see if it breaks

- Don't waste too much time on FEA

Action Items:

- **Talk to Oman**
- **Meet Tuesday to buy parts and survey progress**

Next Meeting: 10/15/19, 5:00 @Union