

## Assignment #6: Performance

due 10/27/2021 before midnight via Learning Suite

ME 415

50 possible points

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**6.1** Predict some key performance metrics for your aircraft including:

- speed for max range, and the corresponding range
- speed for max endurance, and the corresponding endurance
- speed for max climb rate, and the corresponding climb rate
- speed for max  $L/D$ , and the corresponding  $L/D$  (you've done this before, but your aircraft may have changed).

Make sure you have plots for the analyses (e.g., range as a function of speed). Briefly discuss your results.

**6.2** Work on building your airplane. Split up tasks so you can use your time effectively and make good progress. The resources on "Adhesives", "Hinges", and "Control Surfaces" may be helpful to you.

You will need to provide sufficient detail to demonstrate that you have accomplished an appropriate amount for a weekly assignment. Feel free to use any combination of descriptions, photos, videos you see fit. Note that you are describing your accomplishments. Not the teams.