

Reading

- All the documents inside the “Readings” folder starting with “Week_1”.

Report

MAE 275 is mostly about addressing technical challenges related to UAVs or UASs (you should avoid calling them “drones”). But it is very hard for us to address these issues effectively without putting them into proper historical, economic, and political contexts. The goal of the first homework is to prepare you with these necessary contexts, particularly in terms of the future of UAS and aviation as a whole.

- Please read all the documents inside the “Readings” folder starting with “Week_1”. Some of the documents are written by professionals, some by law makers, and some by science writers. One of them “How Technology Is Destroying Jobs” is not about UAS per se but robotics. But you can see UAS as aerial robots.
- Write a short essay commenting on the following questions:
 - What is the aspect(s) of future UAS you find most exciting? Please relate to your own research or interest.
 - What is the aspect(s) of future UAS you find most disturbing?
 - What are some of the main hurdles for the future development of UAS?
 - What are the ways that you envision we can use to make UAS beneficial for us, i.e., to maximize their exciting aspects while suppress their disturbing aspects?
- Instructions:
 - You only need to read through the documents briefly. It should be a quite light read.
 - Please type your report.
 - There is no right or wrong answer. Use your imagination.
 - Please keep the report within three pages.