

AERO 552: Aerospace Information Systems

Homework 1



- why you are taking this class:
 - To know more about how code is written to solve space-specific problems and understand the differences
 - Understand the knowledge domains and mental models that are specific to space applications
- any information you'd like the instructor to know:
 - I have been an embedded systems engineer, computer vision engineer and general linux systems engineer for a startup in Singapore, called Transcelestial for the past 6-ish years
 - I was leading the pointing and tracking team for stabilizing a laser to enable free space optical communications, and we launched a payload to test laser downlink back in december 2022
 - I have good experience with C++
 - I decided to pivot to Aerospace because I think it is more interesting than general software engineering and management which was what I was being pushed towards in my previous company

Bookkeeping

1. how much time you spent on this homework

12-16 hours

2. how difficult you found it subjectively

Quite difficult, I am generally use newer C++20 features and all the STL goodies C++ has to offer. Doing this assignment I felt extremely handicapped.

3. what you found to be the hardest part

Not having all the libraries/features I use allowed for this homework

4. how deeply you feel you understand the material it covers (0%–100%).

100%