05 October 2022

Mitchell Williams u18013555

EPR402 Project Progress Meeting #11

Project Lab 1

* Discussed current implementation progress as well as progress on report – literature review has been nearly completed and section headings scaffolded out
* The design section should contain intermediate results to show progress and design changes/improvements throughout the semester such as the hand coordinate delta figure
* The design and implementation section should not have a huge focus on figures of things that didn’t work, but rather more discussion about alternatives explored and results achieved there
* The Results section must contain results related to your specs and how you achieve them
* Mr. Grobler will review code and check quality/modularity in repo come exam time – improve folder structure and make clear what the final demonstration relies upon in terms of code
* More research needs to be done on surface detection – place it in literature review and explore what others have done
* Also investigate general structures created from depth data in the literature as well as plane reconstruction
* Companies like Apple utilize AR already – investigate how industry-grade applications perform surface reconstruction
* Investigate blob detection for surface reconstruction in literature review
* Report should focus on first-principles implementation algorithms – new work and the core of project.
* Detail in design and implementation section should work from core outwards of project – the integration of the pipeline explained more in detail than backpropagation mathematics
* Include TensorFlow as well as first-principles results in Results section – gives context to performance of system VS industry
* Report must show progression and engineering thinking throughout year – what worked, was slow and what improved/designed – show engineering processes