


17 August 2022
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EPR402 Project Progress Meeting #8
Project Lab 1



- Discussed current prototypes and agreed that expanding on them to present an integrated prototype is the main focus at the moment
- Consider using HSV colour space for skin segmentation and thresholding – it is the industry standard in a lot of applications and robust to lighting changes which have been an issue
- Robustness against changing light sources does not usually include direct light sources pointing into the lens – orientate camera in final system to account for this
- Main focus of current work should be on getting the integrated system prototype to be stable but not optimized – that is a later concern
- One discovers previously unknown interactions and problems between subsystems when integrating so get to this as soon as possible
- Don't highly optimize one component before integrating – might be wasted or inefficient use of time when other problems appear
- Lack of integration remains a concern – main goal for next meeting
- Discussed current progress with Tensorflow prototypes for the gesture classifier and how to increase accuracy in the real-world with better training data and segmentation thresholding values
- Negative class examples often used when training ML classifiers – add negative classifiers like “empty environment” or “no hands” in hand gesture classifier to prevent spurious output
- Agreed to amend previous week's minutes to make point about “performance specifications potentially being unrealistic” unambiguous
- End of September is the expected start date for report writing – integration needs to happen before then so plan accordingly