

The Handler

Week 1

- Abstract
- Task List
- Role division
- Workflow
- Related research

Week 2

- Literature Overview
- Transfer Learning Exploration
- Cloud pricing comparison
- Software Exploration
- Control Libraries Exploration

Week 3

- Understand MobilenetV2
- Transfer learning with MobilenetV2
- Dataset Exploration
- Pre-trained Model Search
- Implement OpenCV Tutorial

Week 4

- Implement Pre-trained model
- Add Inference part with webcam
- Add Transfer Learning
- Standalone Control Scripts
- Integrate Control Scripts

Week 5

- Decide CC Tools and Architecture
- Modifiy Code for CPU
- Add Data Augmentation
- Setup Apache, Unicorn, Flask
- CC Architecture Diagram
- Documentation and Presentation

Week 6

- Served AI Model with Flask Locally
- Flask Zip file transmission
- Model Validation
- Debug Data preprocessing
- Setup Local server on Target Machine

Week 7

- Integrate Control and AI Code
- Reduce False Detection
- Port Forward Debugging
- Client-Server Flowchart

Week 8

- Reduce Memory Footprint
- Hyperparameter Tuning using GridS...
- Basic Sequence Diagram
- OpenCV Handtracking with Haar
- Public server access

Week 9

- Local Server Integration with backend
- Public Facining Middle server (AWS)
- Integrate Complete Pipeline
- OpenCV Handtracking with YoloV3
- Final Flowchart
- Final Sequence Diagram
- Documentation and Presentation

