

**EE/CE 4388: Senior Design I**

**Summer 2021**

**Submission Date: July 23rd, 2021**

***A. Last Meetings Action Items***

1. Researching more about the data loader, we learn it’s much more complicated and we are now continuing work on the data loader
2. Soldered screen onto the featherboard

***B. Weekly Progress Report***

1. Dataset has been tripled due to data augmentation
2. Still working on the dataloader to use with h5 files
3. Verified that MinGW32 was working on the board
4. Confirmed that the display works after soldering to featherboard

***C. Achievements and Concerns***

1. Every member now has their own Maxim MAX78000FTHR board
2. Troubleshooting loading files into MinGW32
3. Still having errors on Eclipse Studios with file upload
4. Waiting for signed reimbursement form
5. ai8x-training installation not working due to ubuntu not detecting graphics card

***D. Additional Remarks***

1. Goals for next week: Create a new data loader that can successfully use the h5 files from the kaggle dataset.
2. Implement the data loader + training with nn code
3. Convert image into a PIL image format to use with the rest of the code
4. Synthesize the project
5. Run simple programs successfully on tft display & microcontroller