This is the Introduction file to the ECE5584 Homework 4 Submission, Fall 2019 for Matthew Kayrish. This submission package contains the following files.

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| **This File** | This is the Table of Contents for the submission. |
| **ECE5584HW4\_MGK\_MZ.pptx** | This is the final presentation summarizing the HW4 results. |
| **ECE5584HW4\_MGK\_MZ\_SupplementalReport.pptx** |  |
| **runHW4.py** | The top level function calling train.py for training a variety of CNNs. |
| **Train.py** | This function will train the CNNs based on the input parameters set within the file or in runHW4.py. |
| **Dataset.py** | This module contains classes and methods for processing data for training on the GPU. |
| **Model.py** | This module contains classes for building the networks. |
| **Noise\_generator.py** | This module contains classes and functions for generating various types of noise. |
| **Utils.py** | This module contains various utility classes and functions for executing HW4. |
| **testHW4.py** | This is the top level function for testing noisy images with the Wiener Filter and the generated CNNs. |
| **testNoiseGenerator.py** | This module contains classes and functions for generating various types of noise for testing purposes. |
| **Lena.png, Cameraman.png** | These are the test images used for HW4. |