CIS PA 2

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Summary
This report is for programming assignment 2 distortion calibration and application, containing following parts,

* Mathematical Approach and Algorithm
* Programming Structure
* Validation and Results
* Discussion
* Summary of Unknown Data

The folder contains following subfolders and Matlab files,

* PA2 - Essential Matlab functions
  - scale_to_box.m: scale the experimental distorted data and return its maximum and minimum value
  - BernsteinMat.m: return the Bernstein matrix of scaled points set
  - distortion_matrix_compute.m: compute the distortion matrix
  - distortion_correct.m: correct the measured distorted data by distortion matrix
  - correct_em_pivot_calibration.m: corrected version of EM pivot calibration
  - fiducials_in_EM.m: compute the locations of the fiducial points relative to the tracker base frame.
* PA12-StudentData - Data for PA2
* parse - Matlab functions for parsing data files
* pa2output - Output data derived by PA2
* pa2driver.m - driver script for PA2 and leads to pa2output files
* pa2validation.m - Matlab script for validation and error analysis