

ECE180DB : Lab 9 Report

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Tasks Planned

- complete SVM classifier
 - record data base using new objects
 - modify data-base to include more gestures or remake if the live results are not what we expect
 - validate results on generated data base
 - real time validation

Tasks Completed

- SVM data base created and training of the classifier has begun
 - enforced strict data rate with loop timers on the kalman filter
 - 30 Hz sampling frequency is less than ideal, but it is what the hardware is capable of to produce a stable sampling rate
 - added extra features per sample to hopefully improve training results
 - added user friendly interactions for recording data to make the process less painful, and allow a larger data base to be created
 - since data is low pass filtered, we can hope that the end result will not be dramatically impacted by the decreasing in sampling rate
- integration
 - guarantee blank sends are created in the gui to help the acknowledgement process

Future Tasks

- Testing, do more
- help with bug fixes
- finish svm validation (currently in process)
- help with other teams testing
- final presentation