

Sign Language to English (SLATE8)

Slate8

Progress Presentation #2

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Tuesday, February 20, 2018

Milestone Summary

Jan	1			Presentation on Existing Image recognition!
	2			
	3			
	4	Review literature on image recognition	Nathan	
Feb	1	Review literature on image recognition	Nathan	Presentation on learned sign language symbols and cellphone generated images
	2	Learn some basic sign language symbols for image generation	Nathan	
	3	Learn some basic sign language symbols for image generation	Nathan	
	4	Generate images with cell phone	Nathan	

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Activity Summary

HIGHLIGHTS:

- ▶ Obtained training video of proven sign language hand gesture recognition and software setup.
- ▶ Obtained python software files containing trained hand symbols to the HMM database.
- ▶ Installed MS Visual Studio 2017, for python platform.

LOWLIGHTS

- ▶ Make contact with python coders to help install and run sign language files.
- ▶ Could not setup and system and test for signal syllable recognition.

Risk Management





Rank	Risk	Mitigation Approach
1	If fail with first project, will research second proven python implementation of sign language software as backup to first.	R
2	Second setup will be given top priority while troubleshooting first project.	W
3	If both alternative fails, then train hand gesture sign images with the HMM library and cameras which is a longer process.	R W

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- ▶ Sign Language Recognition with HMM's.

Planned Activity for Next Period

- Presentation demonstration on single syllable demonstration with computer and python software.
- Train python system to recognize whole word recognition instead of single syllables.

BOY  Open and close the "and" handshape at your forehead	GIRL  Make a "thumbs up" and brush your thumb down the side of your chin
WHAT 	WHEN  Circle index finger around other index finger