

EE / CPRE / SE 491

Sheet Vision

Iteration 14 Report

10/25/2019 - 11/08/2019

Student suggested Project

Faculty advisor: Alexander Stoytchev

Team Members:

Bryan Fung — Frontend, Software Engineering

Garrett Greenfield — Front end, Software Engineering

Ricardo Faure — Frontend/Backend, Software Engineering

Trevin Nance — Machine vision, Software Engineering

Walter Svenddal — Machine vision, Software Engineering

Past Week Accomplishments:

- Playing a song in the piano back from a JSON format.
- Mobile app properly communicates with AWS server.
- AWS server now acts as expected.

Pending issues:

- Put every component together.

Individual Contributions

<u>Team Member</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>Total Hours</u>
Bryan Fung	Implemented function to play sounds from a JSON format of a song	16	87
Garrett Greenfield	Implemented animations for songs played from Json format songs	15	69
Ricardo Faure	Worked on complete architecture for backend, cleaned up aws for opencv code and finished connection.	15	82
Trevin Nance	Worked on trimming down area being detected as different symbols, worked on determining which symbols were causing issues with location	3	69
Walter Svenddal	Code cleanup, line detection, border identification	6	70

Plans for Coming Week:

- Bryan Fung:
 - Implement dynamic piano size for any phone.
 - Improve timing for piano sounds.
- Ricardo Faure:
 - Fine tuning on mobile app and architecture.
- Garrett Greenfield:
 - Create working animations for Bryans implementation of sound
- Trevin Nance:
 - Get dotted note support working reliably, work on key signature detection.
- Walter Svenddal:
 - Finalize line algorithm.
 - Integrate with note detector.
- All:
 - Get a prototype which uses all portions of the system set up .