

EE / CPRE / SE 491

Sheet Vision

Iteration 9 Report

4/19/2019 - 4/26/2019

*Student suggested Project*

*Faculty advisor: Alexander Stoytchev*

#### Team Members:

Bryan Fung — Frontend/Backend, Meeting Facilitator

Garrett Greenfield — Front end, Team Scribe

Ricardo Faure — Frontend/Backend, Meeting Facilitator

Trevin Nance — Machine vision, Chief Engineer Power System

Walter Svenddal — Machine vision, Report Manager

#### Past Week Accomplishments:

- Prepare for the presentation (Whole Team)
- Updated Design Document (Whole Team)
- Research sending MIDI files from apache server to client application (It is possible, Ricky)
- Worked on mapping notes (Trevin)
  - Worked on mapping the notes we have found to the lines in the sheet music to determine the lines
- Resource collection and Opencv (Walter)
  - Detecting bar lines and staves
- Implementing on presentable demo of the piano front end animations (Bryan, Garrett)

#### Pending issues:

- Bug on the Android application which makes it crash
- Difference in image handling between Trevin and Ricky
- Mobile Development is difficult

## Individual Contributions

<u>Team Member</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>Total Hours</u>
Bryan Fung	Worked on the presentation, creating demos and parsing midi files into playable sound	4	43
Garrett Greenfield	Worked on creating demos and parsing midi files into playable sound	4	36
Ricardo Faure	Research sending MIDI files from apache server to client application	4	49
Trevin Nance	Continued work on detecting eight and quarter notes	22	53
Walter Svenddal	Worked on document screening algorithm	6	38

## Plans for Coming Week:

- Whole Team:
  - Prepare for presentation.
- Bryan Fung:
  - Practice the presentation, fix/update the design document and the powerpoint.
- Ricardo Faure:
  - Further prepare for presentation, update powerpoint, and finalize a prototype with Trevin's sheet reading algorithm.
- Garrett Greenfield:
  - Prepare for presentation
- Trevin Nance:
  - Present and update the design doc.
- Walter Svenddal:
  - Keep using detecting bar lines to determine note placement.