
Weekly Report No. 8

Artwork Super-resolution Scanning Application

04/02/2023 – 04/09/2023

Isaac Plambeck • Samuel Schaphorst • Garrett Powell

Client/Advisor: Dr. Thomas Daniels

Weekly Summary

Past Week Accomplishments

As a Group

- Discussed a new approach to resolve corner detection involving qr panels that will also account for color adjustment
- Began researching qr code color panels

Isaac – *Software Development Lead*

- Looked into Pantone corner detection to work with Open Cv

Samuel Schaphorst – *Testing/Quality Assurance Lead*

- Was able to make border detection much more accurate
- Began research on qr code color panels for corner detection

Garrett Powell – *Electrical Design Lead*

- Introduction/basic research to Pantone color match cards.
- Quick openCV/python review

Pending Issues

As a Group

- N/A

Isaac

- N/A

Samuel

- N/A

Garrett

- N/A

Individual Contributions

<i>Team Member</i>	<i>Contributions</i>	<i>Hours - This Week</i>	<i>Hours - Cumulative</i>
<i>Isaac Plambeck</i> <i>Software Development Lead</i>	<ul style="list-style-type: none">• Pantone corner detection work• Website update and git updates• Bug fixes for current app	3	36
<i>Samuel Schaphorst</i> <i>Testing/Quality Assurance Lead</i>	<ul style="list-style-type: none">• Continued work with border detection and increased the accuracy• Began research on qr code color panels	5	32
<i>Garrett Powell</i> <i>Electrical Design Lead</i>	<ul style="list-style-type: none">• Research into Pantone color match cards and their application for our project• Quick openCV/python review	3	29

Comments and Extended Discussion

-

Plans for the Upcoming Week

As a Group

-

Isaac

- Print out Pantone corners and try to scan using app

- Other app updates and bug fixes
- Website updates

Samuel

- Research qr code color panels further
- Start looking into image stitching open cv functions

Garrett

- Look more into the Pantone color match cards for how they can be incorporated into our design/algorithms
- Continue practice with openCV and python

Summary of Weekly Advisor Meeting

- Daniels introduced us to qr code color panels (Pantone cards)
- Discussed how they can eliminate a potential corner detection function in our code
- Also has color adjustment capabilities
- Discussed missing group member who is still missing