# Weekly Report No. 2

Artwork Super-resolution Scanning Application

9/16/2023 - 9/27/2023

Isaac Plambeck • Reece Dodge • Samuel Schaphorst • Garrett Powell

Client/Advisor: Dr. Thomas Daniels

# Weekly Summary

# Past Week Accomplishments

#### As a Group

Researched color correction with open cv

## Isaac – Software Development Lead

• Worked on perspective correction and crop algorithm for aruco markers.

## Reece Dodge – Project Lead

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## Samuel Schaphorst – Testing/Quality Assurance Lead

 Set up wooden frames equipped with pantone cards around canvas and took pictures to use for future coding endevours

## Garrett Powell – Electrical Design Lead

- Began looking into openCV code for color correction with Pantone color match cards
- Basic research into various potential noise reduction methods to incorporate in the noise reduction function

## **Pending Issues**

As a Group

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#### Isaac

None

#### Reece

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#### Samuel

None

#### Garrett

• None

# **Individual Contributions**

Team Member	Contributions	<b>Hours</b> - This Week	<b>Hours</b> - Cumulative
Isaac Plambeck Software Development Lead	<ul> <li>Aruco Corner Detection Algoritm</li> <li>Website Update</li> <li>Cropping and Perspective algoritm work</li> </ul>	5	12
Reece Dodge Project Lead	•		
Samuel Schaphorst  Testing/Quality Assurance Lead	<ul> <li>Set up canvas with different lightings</li> <li>Put pantone cards on wood panels</li> <li>Researched color correction in opency</li> </ul>	5	10
Garrett Powell	Began looking into how to incorporate Pantone cards with openCV	4	8

Electrical Design	Basic research into noise reduction.	
Lead		

## **Comments and Extended Discussion**

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# Plans for the Upcoming Week

#### As a Group

Start implementing color correction on canvas pictures

#### Isaac

• Continue new cropping algorithm work

#### Reece

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#### Samuel

• Start coding and gathering results for color correction

#### Garrett

- Work on development for noise reduction function
- Work on implementations of openCV color correction with Pantone cards

# Summary of Weekly Advisor Meeting

- Discussed border correction with aruco and created wood panels to frame canvas with pantone cards in each corner
- Found an equation to use when determining how much of each card to use for every pixel of artwork