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Weekly Report No. 6

Artwork Super-resolution Scanning Application

03/05/2023 – 03/12/2023

Isaac Plambeck • Reece Dodge • Samuel Schaphorst • Garrett Powell

Client/Advisor: Dr. Thomas Daniels

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Weekly Summary

This week, the group met and discussed critical decisions we need to make in order to proceed with design. We are close to making said decisions, all that's left is to hear Dr. Daniel's opinions on critical subject matter.

Past Week Accomplishments

As a Group

- Discussed different approaches to image scanning, prioritizing two different methods, image stitching vs no image stitching

Isaac – *Software Developer Lead*

- Worked on the Application and investigated perspective correcting software's.
- Updated Website with Reports

Reece Dodge – *Project Lead*

- Speculated on methods to approach image stitching
- Researched barrel distortion

Samuel Schaphorst – Test/Quality Control

- Helped research different image scanning methods
- Continued editing the border detection function I've been working on

Garrett Powell - *Electrical Engineering Lead*

- Familiarized myself with Visual Studio.
- Downloaded Python and openCV.
- Began learning various openCV functions.
- Practiced basic image processing methods to continue learning Python/openCV.

Pending Issues

As a Group

- None

Isaac

- None

Reece

- None

Samuel

- Trying to figure out what's causing my border detection program to inaccurately detect borders

Garrett

- None

Individual Contributions

Team Member	*Contributions*	*Hours - This Week*	*Hours - Cumulative*
Isaac Plambeck *Software Development Lead*	• App work and Website	5	29
Reece Dodge *Project Lead*	• Research • Brainstorming	4	20
Samuel Schaphorst *Test/Quality Control*	• Edits to border detection function • Helped research different image scanning methods	4	21

Garrett Powell *Electrical Engineering Lead*	• Became familiar with Visual Studio, Python, openCV. • Practiced basic image processing methods.	6	20

Plans for the Upcoming Week

As a Group
- Speak with Daniels about image stitching

Isaac
- Continue looking into perspective correction in OpenCV to use in the App

Reece
- Continue researching computer vision and understanding the nuances of traditional image scanners

Samuel
- Continue to research image stitching as well as no image stitching approaches to image scanning

Garrett
- Continue to practice openCV/Python, focusing on image processing.
- Look more into image stitching vs image processing to help get us in the right direction.

Summary of Weekly Advisor Meeting
Did not meet this week