EE/CprE/SE 491 WEEKLY REPORT 01

Start Date: 1/24/2023 - End Date: 2/5/2023

Group number: 18

Project title: Artwork Super-resolution Scanning Application

Client &/Advisor: Tom Daniels

Team Members/Role: Isaac Plambeck, Reece Dodge, Samuel Schaphorst, Garrett Powell

Weekly Summary

- **What was the overall objective for the week?**
  - We made it our priority to meet with Dr Daniels in order to get a better insight of what we are supposed to create.
- **In general, what tasks were completed?**
  - Overall, since this was the first couple weeks and the fact that for most of the week, we couldn't get in contact with Tom Daniels (We finally have got in contact with him and have just sent an email to officially set up our meeting happening next week). There were no notable tasks completed this week.
  - We built virtual collaboration infrastructure and coordinated each group member's schedule. We've got a Microsoft Team complete with an organized file system.
- **Were there any changes made to the project?**
  - No changes made this week.
- **Past week accomplishments:**
  - **Group**:
    - Our overall group accomplishments this week were mainly focused on getting to know each other and coming up collectively with questions and ideas we have for the project.
  - **Isaac Plambeck**:
    - Started looking into programs (IDEs) the team can use to make an application.
    - Focusing on the best language and backend types we should use on the project. So far, the best language is JAVA, using eclipse with a GUI/Application building extension.

- **Reece Dodge:**
  - Researched lens distortion and tried to identify fundamental components to the project.
- **Samuel Schaphorst:**
  - Discussed with group members on how we could program a scanning method capable of increasing resolution.
  - Created Figma map in order to make our brainstorming process more organized.
- **Garrett Powell**:
  - Helped create the Figma map in lecture to get an understanding on the research that will be needed.
  - Discussed possible methods for moving forward with the project.

- **Pending issues (If applicable):**
  - Isaac Plambeck: None
  - Reece Dodge: None
  - Samuel Schaphorst: None
  - Garrett Powell: None

Individual contributions

NAME	Individual Contributions	Hours this week	Hours cumulative
Isaac Plambeck	Application Research	2	2
Reece Dodge	Brainstorming	1	1
Samuel Schaphorst	Figma map	2	2
Garrett Powell	Figma map	2	2

Plans for the upcoming week
- **Group**: Our main goal as a group this coming week is to meet with Tom Daniels, since we still haven't, and talk about questions we have and gather information about the project.
- **Isaac Plambeck**: Start on building a plan on how the application will be built, and making a list of most of the basic features we will want in the application.
- **Reece Dodge**: Start to identify user groups like art collectors and museum personnel. We'd also like to identify key hardware components, if any exist.
- **Samuel Schaphorst**: Meet with Daniels and get a better understanding of the project, begin creating application.

- **Garrett Powell**: Meet with Dr. Daniels to discuss the project and ask questions to gain a better understanding. Begin brainstorming ideas on how to proceed with the signal processing algorithm/methods.

Summary of weekly advisor meeting (If applicable/optional):
- No meeting until next week.