

CprE 492 - sdmay20-13

Detection and classification of cracks on transportation infrastructure using UAV based aerial imagery

March 13th - April 2nd

Team Members

- Ian Seal - Reporting Lead
- Lauren Arner - Project Manager
- Madi Jacobson - Data Lead
- Ben Ferreira - Testing Lead
- John Schnoebelen - Software Developer
- Jack Temple - Software Developer

Past Week Accomplishments

- UI Development - John and Ben
 - Refactored code to improve readability
 - Discussed challenges of working together remotely
- Data Analysis - Lauren and Madi
 - Working on manually processing output accuracy
 - Complete Peer Review Questions
- Recording image output - Jack and Ian
 - Refactored code
 - Began looking into ways to record the image metadata into an Excel file for clients to be able to read
 - Brainstormed ideas on measuring the amount of cracks detected in an image once it has gone through the model

Pending issues (If applicable: Were there any unexpected complications? Please elaborate.)

Individual Contributions

Team Member	Individual Contributions	Hours this sprint	Total Hours
Ben Ferreira	Discussed working remotely and plans for continuing workflow while quarantined	2	26
John Schnoebelen	Improved readability of code	4	25
Lauren Arner	Peer review Questions write up Image processing	4	27
Madison Jacobsen	Image processing, more data analyzation research, reviewed other team's peer review questions for us	3	26
Ian Seal	Looked into ways to measure percent image detected as cracks Began working on recording metadata from image	3	27
Jack Temple	Made necessary changes to start doing work remotely	2	27

Plans For Coming Week

- UI Development - John and Ben
 - Add loading bar to UI when running images
 - Display metadata from images in UI
- Data - Madi and Lauren
 - Process accuracy of images
 - Work on Peer Review Questions
 - Process metadata for quantitative results
- Recording image output - Jack and Ian
 - Record metadata into Excel file, such as file name, GPS location
 - Measure and record the percentage of the image detected as cracks