

EEE 193A / CpE 190

Group 3S

Weekly Progress Report

Date: 9/12/16

Team Members:

- Thomas Bock
- Ammar Ahmed
- Tan Hua
- Jan Michael Golez

Group Meeting Minutes:

- Discuss Necessary Budget Allocated for Enhancement of prototype
- Assemble choice materials needed for Housing/Ventilation System
- Expense Drafted to both Hardware Devices that are necessary for enhancements: e.g. Camera System and S.A.M.S.

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Summary of Team Tasks Assigned:

1. Housing/Ventilation System
 - a. Examine Parts Needed for Ventilation System(e.g. cost of materials)
2. Stand Alone Management System(*S.A.M.S.*)
 - a. Understand mechanics of interfacing within the camera and software system
 - b. Begin Examination/Purchasing of necessary Hardware Components
3. Solitary Software System
 - a. Research compatibility of G-Code with Phyton, PyQt, Numpy, and C++
 - b. Understand how to connect a bridge between the software with the automated camera aspect.
4. Automated/Enhance Camera System
 - a. Begin Researching on OpenCV
 - b. Discussion on a preferable mounting camera angle(Enhancing Image)

Summary of Team Accomplishments:

1. Housing/Ventilation System
 - a) Parts have been examine, a group consent is required to further proceed with the materials
2. Stand Alone Management System
 - a) Began research on Operating Systems Interacting with both the software and camera
3. Solitary Software Program
 - a) Began Practicing with different types of software languages
 - b) Began Research on bridge between camera software and O.S.
4. Automation/Enhance Camera System
 - a) Began an overlook of OpenCV
 - b) Discussion of several mounting angles for Camera

Tasks Assigned for Next reporting period:

1. Housing/Ventilation System
 - b) Proceed discussion with parts and began redesigning enclosure/ventilation system
2. Stand Alone Management System
 - b) Continue research on Bridging Platforms/RasPi first draft
3. Solitary Software Program
 - a) Enhance techniques on different languages to ensure G-CODE implemented correctly
 - b) Help with bridging O.S., Camera, Software
4. Automation/Enhance Camera System
 - a) Familiarize thyself with OpenCV
 - b) Draft for mounted Camera Postion

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Issues:

1. No Issues Reported Concerning Division of Labor

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Individual Summary (cont.)

Name: Thomas Bock

Tasks Assigned for this reporting period:

1. Examine Parts Needed for Ventilation System(e.g. cost of materials)

Accomplishments this reporting period:

1. Parts Examined for enhancement of Prototype CNC Machine

Issues:

1. None

Tasks Assigned for Next reporting period:

1. First Draft Design of Ventilation/Enclosure

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Individual Summary (cont.)

Name: Jan Michael Golez

Tasks Assigned for this reporting period:

1. Understand mechanics of interfacing within the camera and software system
2. Begin Examination/Purchasing of necessary Hardware Components

Accomplishments this reporting period:

1. Began research on Operating Systems Interacting with both the software and camera

Issues:

1. None

Tasks Assigned for Next reporting period:

1. Continue research on Bridging Platforms/RasPi first draft

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Individual Summary (cont.)

Name: Tan Hua

Tasks Assigned for this reporting period:

1. Research compatibility of G-Code with Phyton, PyQt, Numpy, and C++
2. Understand how to connect a bridge between the software with the automated camera aspect.

Accomplishments this reporting period:

1. Began Practicing with different types of software languages
2. Began Research on bridge between camera software and O.S.

Issues:

1. None

Tasks Assigned for Next reporting period:

1. Enhance techniques on different languages to ensure G-CODE implemented correctly
2. Help with bridging O.S., Camera, Software

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Individual Summary (cont.)

Name: Ammar Ahmed

Tasks Assigned for this reporting period:

1. Begin Researching on OpenCV
2. Discussion on a preferable mounting camera angle(Enhancing Image)

Accomplishments this reporting period:

1. Began an overlook of OpenCV
2. Discussion of several mounting angles for Camera

Issues:

1. None

Tasks Assigned for Next reporting period:

1. Familiarize thyself with OpenCV
2. Draft for mounted Camera Postion