**Team Members:**

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

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**Group Meeting Minutes:**

● Begin plans for interfacing between camera, software, and management systems

● Drafting of Ventilation System and Measurement for CNC Laser Machine

● Initiate translation of Software Language into Python for both the software and Camera System

**Summary of Team Tasks Assigned:**

1. Housing/Ventilation System
   1. Examine Parts Needed for Ventilation System(e.g. cost of materials)
2. Stand Alone Management System(***S.A.M.S.)***
   1. First Test of interfacing OpenCV Python into camera system through RasPi
   2. Begin installation of OctoPrint into RasPi3
3. Solitary Software System
   1. Research the necessary software package that can be read in RasPi3
   2. Understand how to connect a bridge between the software with the automated camera aspect.
4. Automated/Enhance Camera System
   1. Begin Researching on OpenCV-Python
   2. Research on different microcontrollers that is compatible with OpenCV-Python

**Summary of Team Accomplishments:**

1. Housing/Ventilation System
2. Parts have been examine, a group consent is required to further proceed with the materials
3. Stand Alone Management System
4. Testing of OpenCV Python into the RasPi3
5. First Attempt of OctoPrint
6. Solitary Software Program
7. Python found most compatible between software, management system, and camera system
8. Begin Transcripting the language into Python
9. Automation/Enhance Camera System
10. Research on OpenCV-Python and installation of the software and libraries needed
11. Raspberry Pi3 was found to be the most compatible for making a connection between camera system and management system

**Tasks Assigned for Next reporting period:**

1. Housing/Ventilation System
2. Proceed discussion with parts and began redesigning enclosure/ventilation system
3. Stand Alone Management System
4. Continue with OpenCV Python into RasPi with camera system to fully connect the camera to the RasPi3
5. Testing of OctoPrint to get a better understanding of G-Code into Phyton
6. Solitary Software Program
7. Continue to transcript language into Python
8. Help with bridging management sytem, Camera, and Software
9. Automation/Enhance Camera System
10. Purchase RasPi3
11. Install OpenCV-Python in RasPi3

**Issues:**

1. Troubleshooting, setting up for RasPi3
2. Troubleshooting for interfacing with Camera System

**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

**Individual Summary (cont.)**

**Name:** Jan Michael Golez

**Tasks Assigned for this reporting period:**

1. First Test of interfacing OpenCV Python into camera system through RasPi3

2. Begin Installtion of OctoPrint into RasPi3

**Accomplishments this reporting period:**

1. Testing of OpenCV Python into the RasPi3

2. First Attempt of OctoPrint

**Issues:**

1. Troubleshooting, setting up for RasPi3

2. Troubleshooting for interfacing with Camera System

**Tasks Assigned for Next reporting period:**

1. Continue to transcript language into Python

2. Help with bridging Management System, Camera, and Software

**Individual Summary (cont.)**

**Name:** Tan Hua

**Tasks Assigned for this reporting period:**

1. Research the necessary software package that can be read in RasPi3
2. Understand how to connect a bridge between the software and the automated camera aspect.

**Accomplishments this reporting period:**

1. Python found most compatible between software, management system, and camera system
2. Begin Transcripting the language into Python

**Issues:**

1. None

**Tasks Assigned for Next reporting period:**

1. Continue to transcript language into Python
2. Help with bridging Management System, Camera, and Software

**Individual Summary (cont.)**

**Name:** Ammar Ahmed

**Tasks Assigned for this reporting period:**

1. Purchase a RasPi3
2. Install OpenCV-Python in RasPi3

**Accomplishments this reporting period:**

1. Rpi3 was purchased.
2. Installation of OpenCV-Python is in progess.

**Issues:**

1. None

**Tasks Assigned for Next reporting period:**

1. Finishing up with installation of the libraries needed
2. Research on Python and start getting familiar with it.