

Weekly Report 2

Team: sdmay22-42

Project Title: A Robotic Sensing System for Gas Emission Measurement

Date: 10/10/21

Members:

Jason Grunklee - Robotics and Sensor Electronics Team Specialist

Animesh Shrouti - Sensor Electronics Project Lead

Freedom Clark - Robotics Project Lead

Chimzim Ogbondah - Data Collection and User Interface Project Lead

Tzu-Chien Liu - Robotics and Data Collection Team Specialist

Robert Wedan - Project Manager

What we've accomplished in the past week/what we've been researching:

Jason Grunklee - This week I looked into some alternative types of robots like drones and some potential methods of sample collection. I also helped on the lightning talk that is due this week.

Animesh Shrouti - This week I further continued researching sensors and began to narrow down which sensor will likely be selected for use. Additionally I also began some research into the robotic arm.

Freedom Clark - This week I continued researching robot options and selected one that I thought would be a good fit for the project. I plan to bring it up in our next meeting with our faculty advisor.

Chimzim Ogbondah - This week I further researched data collection and data transfer for our project. I also helped with the risk mitigation for the project plan

Tzu-Chien Liu - This week I further research into our project to gain more understanding of our topic and its potential. Furthermore, I help construct the lightning talk presentation for next week.

Robert Wedan - This week I completed the project plan and lightning talk on the project plan as well as meeting with project leads to discuss progress.

What we're planning to do in the coming week:

Jason Grunklee - In the upcoming week I want to find out more about the sensor arm and what some of our constraints are. I am hoping to get a better understanding of what it needs to be able to do.

Animesh Shrouti - Next week I will plan on hopefully presenting a sensor to be selected for use based on feedback from the client. Additionally I will continue to research the arm.

Freedom Clark - Research options for the robotic arm and possibly research options for using a drone instead of a robot.

Chimzim Ogbondah - Lend help wherever needed and continue molding data collection and UI into a more clear plan of action

Tzu-Chien Liu - Complete presentation, ensure team are in pace, and volunteer for any extra task that is in need.

Robert Wedan -.Complete the design assignment and associated lightning talk.

Issues we had in the previous week:

Jason Grunklee - We are at a little bit of a standstill on work until we are able to meet with our client. We have questions that will hopefully be answered this upcoming week.

Animesh Shrouti - Due to meeting cancellations missed out on feedback from client.

Freedom Clark - We have not gotten feedback from our faculty advisor in a while because meetings being canceled which causes us to not know what steps to take next.

Chimzim Ogbondah - Classes conflicting with 491 assignment time and work time in general.

Tzu-Chien Liu - Exam marathon causing team members less available for the further discussion and progress.

Robert Wedan - The 491 class assignments are long and time consuming. They are necessary pieces of documentation but they do take a lot of time to complete.