

Weekly Report 5

Team: sdmay22-42

Project Title: A Robotic Sensing System for Gas Emission Measurement

Date: 10/31/21

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 - I started putting together a list of components for our drilling apparatus.

Animesh Shrouti - This past week I looked at pinout maps for the 2 potential sensors we may use.

Freedom Clark - I researched motors that we could use for the drilling attachment.

Chimzim Ogbondah - This past week I did research on connecting a mobile application to a bluetooth module

Tzu-Chien Liu - Helped making presentations, lightning talk and making progress with the motor for drilling

Robert Wedan - Worked on establishing a better plan of attack for the project by focusing on one part of the drilling mechanism and assigning roles to the team.

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

Jason Grunklee - In this upcoming week we are planning on finalizing the list of components needed for our drilling apparatus and getting them ordered.

Animesh Shrouti - In the coming week I plan to send our client an order request for ordering the sensors.

Freedom Clark - Research more into the drilling mechanism and pick out a suitable robot for it.

Chimzim Ogbondah - I will continue doing research on potential software platforms to use and then begin implementing

Tzu-Chien Liu - Going to work with Jason with the design

Robert Wedan -.Research and experiment with my assigned task for the drilling mechanism.

Issues we had in the previous week:

Jason Grunklee - I was trying to create a CAD drawing of our project but struggled with the software itself.

Animesh Shrouti - As we are still in the research phase, potential pinout maps could not be confirmed because connecting parts need to be finalized as well

Freedom Clark - I was unable to attend the last faculty advisor meeting because I was unwell

Chimzim Ogbondah - Other class projects made finding time to work on this project hard.

Tzu-Chien Liu - Discord have been a little bit insufficient for contact but the problem have been solved.

Robert Wedan - With midterms, it has been hard to devote time to the project.