

Meeting Minutes 02/09/2021

Meeting start: 5:30 Pm Moscow time

A extra few minutes will be given since Dr. Hess has not arrived yet.

5:33 all members have arrived

Should all people show their face or not, is up to the team. Harley cannot show his face. Dr. Hess prefers to see faces.

Showing of the agenda.

Introduction of Team members and positions

Harley is the Team Lead, moderator this week

Ali is the budget manager

Orion is the webmaster, recorder this week

Current events: lab access is pending emails to be sent to Dr. Hess

Questions about the project:

What exactly do each of the sensors do?

One sensor is a current sense output: linearly dependent Pololu 36V20 cs It has a small current sense trip, analog digital converter on the speedgoat

Absolute rotary encoder, angular position sensor. BISS-C digital interface. Email specifications of the different parts. We will be dealing with that completely digitally. Send a bit signal to the device and get one back. It gives an absolute position.

Hess asked about the digital signal it will give and receive.

3rd sensor eddicurrent sensor KD-2306 Kamen sensor. Position displacement sensor. Along voltage which is then converted to a digital signal.

1st and 3rd have analog to digital conveters and we shall see how fast it can be done.

What is expected to be completed?

Create a Simulink block that will interact with the sensor. The Simulink block will display the output, link a speedometer displaying speed. Build test blocks to test the block. 1-3 page CIS about how to use the block with a physical validation.

The CIS design will be sent out.

The Simulink will have a display and test blocks. This makes sure that the block is actually working Simulink has a lot of gadgets. There is room for imagination.

Restatement of the mission due by the end of the week

3-group members request to access about the speedgoat.

Going to mathworks to view tutorials about Simulink

Got to the speedgoat website

The team name is flywheel and the Simulinks.

Brian's questions for us

Some guidelines from Brian: think simple, easy to control, stable. Do the simple things first. Once speedgoat comes in make sure to watch the videos. The Simulink block should be easy to use, hard to misuse, satisfies the requirements, easy to improve on, repeatable. Small and simpler interfaces, easy to learn easy to use, appropriate for the audience. Input for the input shouldn't be cryptic.

Good way to learn is to be able to explain to teammates.

Once the restatement of the design is done it will help us learn.

Brian was envisioning one person per sensor but doesn't adamantly oppose all working together on them total. Both ways will help the team learn.

Covering the articles

Make sure the contract was sent to Dr. Hess

Article 1: any changes, it will need more details when restated

Article 6: reading of the portion, it might be best to separate into individuals for the work

The change to this will be decided on the team meeting this week. With research about the different sensors before the meeting

Article 8: discussion of the conflicts and how they will be resolved.

Make meetings work for you.

Article 9: discussion about the contract and how it will be amended. This will need to be amended so that both Brian and Dr. Hess will

Article 5 change meeting time to 5:40 for Dr. Hess' meetings to align better. This time is agreed to by all members. If the Professor is late the meeting should start right when it is supposed to start so that it isn't made a habit of

Anything to add?

Ali: Is there a budget to manage or anything. All the major equipment is bought. Some smaller things may need to be purchased. This will be pushed back to each individual to figure out what will be needed. Think about how it will be connected to the speedgoat. There may be some small cost for wires and such. The estimated total cost would be less than 100 Dollars.

Once there are expenses the lion's share of Ali's work will be submitting the bills. And it will be paid through the university. Brian could foot the cost or Brian has a donor account from alumni for the cost. When cost come up Dr. Hess will converse with Ali. This process will pay for the part through the university.

Person decides what they need then converse with Brian to make sure and then Dr. Hess will be contacted and then it will be sent to a university accountant.

The part can be sent to the university or to a house. With the current events it may be better to send to a home.

Wiki master will have to go to a course to get information about the wiki page and how to set it up. The meeting for the webmaster is will be during the wiki day.

Any more questions.

Harley asked about what he could do better.

Moderator did his work well, no votes, other small feedback.

Dr. Hess' question, when is the next meeting? who will be the moderator and recorder.

Meeting at 5:40, Orion Moderator and Harley will be the recorder.

Make sure to include the zoom information in the agenda for next meeting.

Part 9 of the team contract will be amended

Summary: Meeting began at 5:33, Starting with introductions of the team members. The members of FATS asked clarification questions about the goals of the project and the sensors. More details were given about the sensors. The final goals of the project were given and some information for the team members to investigate. Brian gave guidelines for the project. The articles in the contract were discussed and some amendments will be discussed in the team meeting. The budget was then discussed with the limit set at \$100. Then some final information was discussed.