

Meeting Minutes 6

Date: Feb 6 – Feb 7, 2023

Time 2:00pm – 4:00pm & 11:00am – 12:00pm

Location: ENA305

Attendees:

- Max
- Jaden
- Gurnoor
- Isabella
- Steve
- Sahib

Agenda

1. Action Item Review
2. Action Items
3. Expenditures
4. Issues or Concerns

Action Item Review

A17

Item: ESP-Now Testing
person: Jaden
Update: One way communication with single bit transmission. Next will be two-way with larger data transfer.

A18

Item: Flex Sensor Testing
person: Gurnoor
Update: Reading with Arduino is working w/ the module using I2C communication.
Challenges: Discrete bending on sensor difficult to identify. Still good for general bending and seems to have a fast response.

A23

Item: Glove Production
Person: Isabella
Update: Looking at gardening glove type glove. Seems sturdy enough for sewing on sensors.
Challenges: Still considering issues of static and potentially perspiration.

A24

Item: Glove Circuit Box model
Person: Steve
Update: Started to sketch up design. Thinking of making it a size that can hold a bread board.

A25

Item: RC car 3D modeling.
Person: Sahib
Update: Has a rough model on fusion.

A26

Item: Schematic circuit of Glove
Pperson: Max
Update: Has MultiSim schematic for LM555 timer, LM324 buffer and MPC3001 ADC.
Challenges: MCP3001 not in MultiSim. Used substitute component.

Action Item Assignment

A27

Item: ESP-Now Complex communication
Description: Programming for two communications. Encoding data for each finger and sensor value. Seeing how fast it can transfer.
Person: Jaden
When: Feb 13

A28

Item: ADC circuit design 1
Description: Along with Max will come up with the circuit design for sensor using I2C communication and compared.
Person: Gurnoor
When: Feb 13

A29

Item: Sewing on sensors to temp glove.
Description: ensuring the tip of sensor and finger bonded together well and the rest of sensor able to slide.
Person: Isabella
When: Feb 13

A30

Item: Casing of glove component Design
Description: Making fusion sketch of casing.
Person: Steve
When: Feb 13

A25

Item: RC car model
Description: Improving the fusion sketch of frame.
Person: Sahib
When: Feb 13

A32

Item: Programming ESP-Now transmitter side.
Person: Taking in Analog or digital values from pins. Will try ADC circuit made last week and the analog digital converter on the ESP-Now board.
When: Feb 13

Expenditures

None this week.

Issues of Concerns

We got some great feedback from the design review. Will be adding considerations for perspiration from user. Different had sizes of users. Drivers for glove interfacing.

Next Meeting

Date: Feb 13, 2023
Time: 2:00pm
Location: ENA305