Meeting records

Meeting1 Purpose: E-Commerce, Telecoms and IoT three group meetings

Meeting Date: June 26th, 2023

Meeting Time: 15:00-18:00

Meeting Location:Lab,Classroom

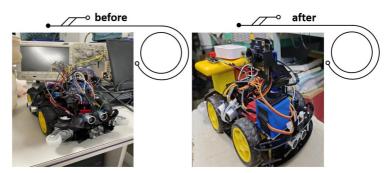
Attendees: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing,Xing Keyuan, Feng Yiyuan, Wang Zhaoxing,Lin Xuanyu,Liu Guanlong,Yang Ruoxi

Agenda Item 1: Discussion on how to plan layout about the design of the car and how do I make the component connections secure

Status and Conclusions:

Responsible Persons: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing

Deadline: June 29th, 2023



Agenda Item 2:Implementation of Collecting picture samples of 3 chosen objects and Producing a simple GUI to demonstrate the accuracy of the trained algorithm

Conclusions:use python to crawling data from the video of the car design a concise GUI to display frames with detection results and demonstrate algorithmic accuracy.

Responsible Persons: Xing Keyuan, Feng Yiyuan, Wang Zhaoxing

Deadline: June 29th, 2023



Agenda Item 3:Implementation of allowing users to login and check their accounts and adding/deleting/modifying information about robot (e.g. name, picture, etc.)

Conclusions:

Responsible Persons: Lin Xuanyu,Liu Guanlong,Yang Ruoxi

Deadline: June 29th, 2023

Wel	come to	our v	vebsit	e!	
Pleas	e input you	r usern	ame an	d passwo	rd!
userna passwe submit					
Not ha	ve a account?				
registe	r.				

Meeting2 Purpose: E-Commerce, Telecoms and IoT three group meetings

Meeting Date: September 24th, 2023

Meeting Time: 14:00-18:00

Meeting Location: Lab, Classroom

Attendees: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing, Xing Keyuan, Feng Yiyuan, Wang Zhaoxing, Lin

Xuanyu, Liu Guanlong, Yang Ruoxi



Agenda Item 1: Discussion on how do I make the component connections secure and Discussion on how can software problems at run time be solved through structural improvement

Conclusions: The program execution of Arduino is a loop execution. Assuming the car gets stuck, the sensor data remains almost unchanged for many subsequent cycles, which can be used to determine whether the car is stuck or not.

Responsible Persons: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing

Deadline: September 30th, 2023

Agenda Item 2: Implementation of Collecting picture samples of 3 chosen objects and Producing a simple GUI to demonstrate the accuracy of the trained algorithm

Conclusions: design a concise GUI to display frames with detection results and demonstrate algorithmic accuracy.





Responsible Persons: Xing Keyuan, Feng Yiyuan, Wang Zhaoxing

Deadline: September 30th, 2023

Agenda Item 3: Implementation of visualising records of explorations

Conclusions: The code is a Java Servlet mainly used to process HTTP requests related to robot information: It determines the specific operation based on the "method" parameter in the request. Obtain the identity (userId) of the current user. Created a Robot DAO instance to access robot information in the database. Perform corresponding operations based on different method parameters, including querying, adding, updating, deleting robot information, etc.

Responsible Persons: Lin Xuanyu, Liu Guanlong, Yang Ruoxi

Deadline: September 30th, 2023

Meeting3 Purpose: The connection of three groups

Meeting Date: September 30th, 2023

Meeting Time: 15:00-18:00

Meeting Location: Lab, Classroom

Attendees: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing,Xing Keyuan, Feng Yiyuan, Wang Zhaoxing,Lin Xuanyu,Liu Guanlong,Yang Ruoxi



Agenda Item 1: Discussion on how can software problems at run time be solved through structural improvement and discussion on the logic of walking a maze, connected with IoT and E-Commerce

Status: Real time analysis of sensor data during travel. When the distance ahead is sufficient, go straight ahead. When encountering a group ahead, determine the left and right distances, and turn to which side with larger distances. In addition, the problem if the car has many edges and corners, what should I do if it gets stuck needs to be solved.

Conclusions: If encountering obstacles, i.e. the data of all three sensors is small, step back a long distance and stop taking photos (step back a long distance to allow the camera to capture the treasure comprehensively).

Responsible Persons: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing

Deadline: October 6th, 2023

Agenda Item 2: The problem about YOLO V8, connected with Telecoms and E-Commerce

Conclusions: We trained the yolo v8 model dozens of times and picked the version with the best recognition. If the recognition effect is not ideal, we can also adjust the confidence level at any time to achieve the best effect.

Responsible Persons: Xing Keyuan, Feng Yiyuan, Wang Zhaoxing

Deadline: October 6th, 2023

Agenda Item 3: Implementation of visualising records of explorations (e.g. average maze exploration time, statistics of treasures, etc.),connected with IoT and E-Commerce

Conclusions: Perform corresponding operations based on different method parameters, including querying, adding, updating, deleting robot information, etc.

Responsible Persons: Lin Xuanyu, Liu

Guanlong, Yang Ruoxi

Deadline: October 6th, 2023

```
process and details plane interest reg. Nits are interested as a process and details plane in the reg. plane are (% "memorif").

Since it method a reg. plane area (% "memorif").

Since it method a reg. plane area (% "memorif").

Since it method a reg. plane area (% "memorif").

Since it method a reg. plane area (% "memorif").

I continue of a memoriful plane area (% "memorif").

I continue of a memoriful plane area (% "memorif").

I continue of a memoriful plane area (% "memorif").

I continue of a memoriful plane area (% "memoriful").

I continue of a memoriful plane area (% "memoriful").

I continue of a memoriful plane area (% "memoriful").

I continue of a memoriful plane area (% "memoriful").

I continue of a memoriful plane area (% "memoriful").

Since in these continue of a memoriful plane area (% "memoriful").

Since in these continue of a memoriful plane area (% "memoriful").

Since in these continue of a memoriful plane area (% "memoriful").

Since in these continue of a memoriful plane area (% "memoriful").

Since in these continue of a memoriful plane area ("memoriful").

Since in the area of a memoriful plane area ("memoriful").

Since in the area of a memoriful plane area ("memoriful").

Since in the area of a memoriful plane area ("memoriful").

Since in the area of a memoriful plane area ("memoriful").

Since in a memoriful plane area (
```

Meeting4 Purpose: The connection of three

groups

Meeting Date: October 6th, 2023

Meeting Time: 18:00-21:00

Meeting Location: Lab, Classroom

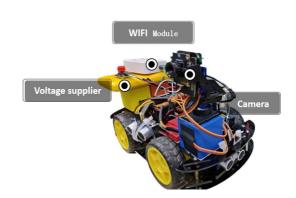
Attendees: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing, Xing Keyuan, Feng Yiyuan, Wang Zhaoxing, Lin Xuanyu, Liu Guanlong, Yang Ruoxi



Agenda Item 1: Discussion on WiFi part and Bluetooth Module, connected with IoT and E-**Commerce**

Conclusions:

- 1.WIFI Module: Core component of WIFI part
- 2. Voltage supplier: From unstable bread board supply to stable voltage source
- 3.Camera:Transfer pictures to the pc via WIFI
- 4. Bluetooth Module: Connect the Bluetooth module to the microcontroller, initialize the Bluetooth module, and edit the serial port



Responsible Persons: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing

Deadline: October 8th, 2023

Agenda Item 2:The problem about YOLO V8, connected with Telecoms and E-Commerce

Conclusions: If the recognition effect is not ideal, we can also adjust the confidence level at any time to achieve the best effect.

Responsible Persons: Xing Keyuan, Feng Yiyuan, Wang Zhaoxing

Deadline: October 8th, 2023



Agenda Item 3: Intergration of all possible functions and web optimization, connected with **Telecoms and IoT**

Conclusions: For users to operate the database more easily, after identifying the captured images, users can directly log in to the website locally and input the identified images and required data into the database, Then users can directly browse the data in the database on the website.



Responsible Persons: Lin Xuanyu,Liu Guanlong,Yang Ruoxi

Deadline: October 8th, 2023

Meeting5 Purpose: Preparation of Final

Pre and Demo

Meeting Date: October 9th, 2023

Meeting Time: 17:00-20:00

Meeting Location: Lab, Classroom

Attendees: Yu Qifan, Miao Yunshuo, Hu Jiaxiang, Xin Yixuan, Yang Yuqing,Xing Keyuan, Feng Yiyuan, Wang Zhaoxing,Lin Xuanyu,Liu Guanlong,Yang Ruoxi

