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### **Summary**

The development of the robot was divided into several submodules and implemented separately but now the project was down to half a month. All subparts must be integrated so the integration has been being processed. However, the platform and broom have not done. The test environment is also not prepared either.

### **What C.C completed this week:**

- Fixed the error saying 'package not found' that occurred in the 'motor' package
- Built the splash screen and changed the application icon in Android app
- Added a click event to get the location in Android app
- Modularized GPS code and magnetometer code
- Implemented the algorithm for the autonomous driving
- Built the communication between the app and RPi via ROS2 and socket for setting route
- Completed the detection node and trained YOLOv7 model with COCO and TACO
- Wrote the communication and detection part in the methodology of the paper
- Wrote the real-time detection python file
- Started making the PowerPoint for the final presentation

### **Things to do by next week**

- Will keep making the platform
- Will construct the test environment

### **Problems or challenges:**

- There was a disagreement with interfaces between the two control units such as what variables are to be passed or what type the variables have.
- The same error kept appearing so multiple reset and rebuilding packages were needed.

### **References**

