

Group board meeting: The Sand-E Group

Minutes for 2016-02-23

Present: A. Goodsell (Chair), M. Fry (Board member), L. Foglianti Spadini, A. Hyslop, A. Kallaivannan, R. Kent, C. Lau, A. Rutley, S. Searles-Bryant, S. Wright, L. Yeo

Old business & announcements

1. The minutes of the previous meeting were approved.

Progress & discussion

Mid-term review

1. Discussion of notes from interviews of Group 6.
SW and LFS will write up.

Hardware

2. AR has fixed some problems with the robot.
3. AR, CL, RK have attached the motors and wheels to the chassis. We will need new wheels eventually (AR has asked for spare wheels).
4. The wheels can be cut down to make the robot more compact.

Electronics

5. SSB has cut holes in the housing and installed the components.
One cable still has not been delivered so we were waiting on that. If it hasn't arrived yet then SSB will replace the connectors with spade terminals.

Software

6. LFS: An algorithm is needed to determine the wheel turning
7. Discussion of turning on the spot v. turning whilst driving
8. The GPS shield does not appear to be working at all: it is not receiving any signal. AG will try to get it replaced to confirm a problem with the hardware.
9. LY has written code for turning but makes assumptions (*e.g.* flat ground).
AG points out slow motor speeds, while initially concerning, will help to avoid slipping.

10. AG: The time constraint on the project means we do not expect to create a UI for children, but can design the software as if it will. MFS and SW point out that the UI can be part of a future project.

New Business

Report

1. Everything sent to SSB will be put into the report.
2. We will aim to have the report finished the weekend before the deadline. We will assign a group to edit the report nearer the deadline.

Next Meeting: Tuesday, March 8, at 11:15 in MPEB 3.14a

Actions

- > Write up mid-term assessment of Group 6 (*SW, LFS*)
- > Replace GPS module (*AG*)