

Electronic Caddy

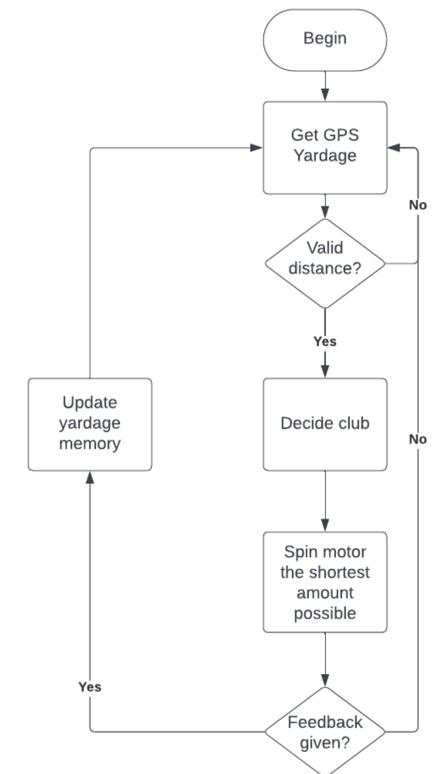
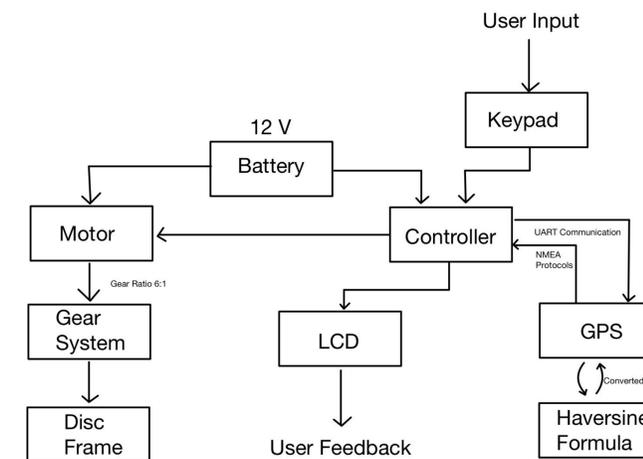
Project

The Electronic Caddy is a GPS based caddy built into a golf bag. This project aims to lower the golf score of the user. The project does this in several ways.

- Allow users to give golf shot feedback
- Implement User preferences
- Use accurate GPS locations to determine yardage
- Keep a consistent record of yardages between power cycles



System



Methods

- Modular software approach to increase maintainability
- NMEA GPS protocol produces within 2 yards of accuracy
- FLASH memory usage to store data between power cycles
- Liquid Crystal Display for informative feedback to the user
- Customizable preferences stored in FLASH memory
- Custom club yardages stored in FLASH memory
- Rechargeable power system integrated into the bag

Conclusion

Results:

- GPS accuracy within 2 yards
- FLASH memory to store club yardages and user preferences
- Accurate motor feedback to control club positioning

Future Improvements:

- Dynamic course addition
- Graphical User Interface (i.e. touchscreen, GPS imaging)
- Weight and size reductions