



Mini Autonomous Car

Team members: Cynthia Gonzalez, Hao Hu, Ibtissam Bar Rhout, Raymond Yu
Mentor: Professor Henry P. Lee
Department of Electrical Engineering and Computer Science

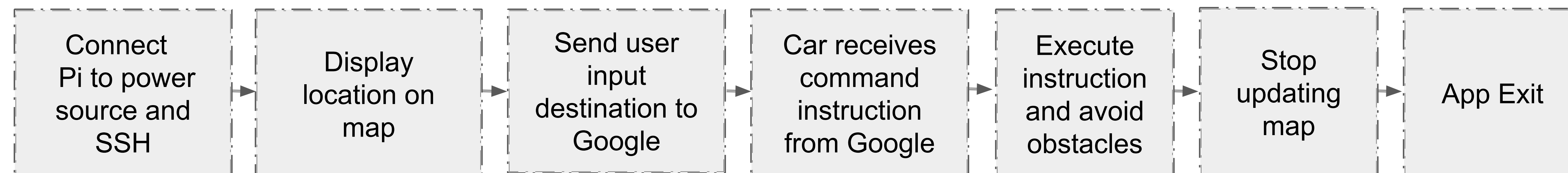
Project Purpose

- ❑ Wireless communication system between PC and mini autonomous car
- ❑ Integrated user-interface to set a final destination and track every movement

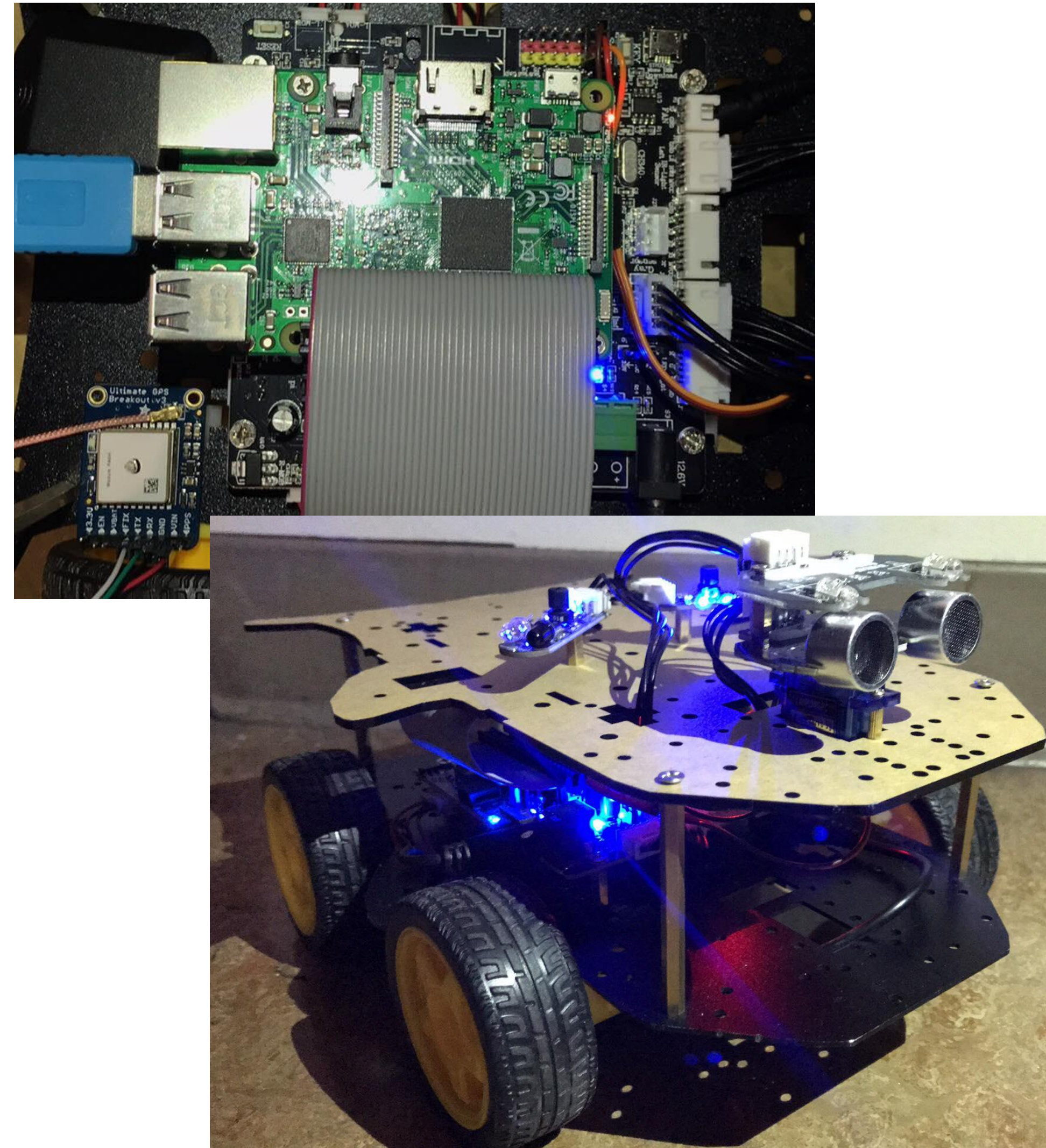
Current Status

- ❑ Able to send data from the Raspberry Pi and GPS Module to the PC.
- ❑ Integrated features inside the user interface
- ❑ Tested the mini car and can run obstacle avoidance

Software Approach

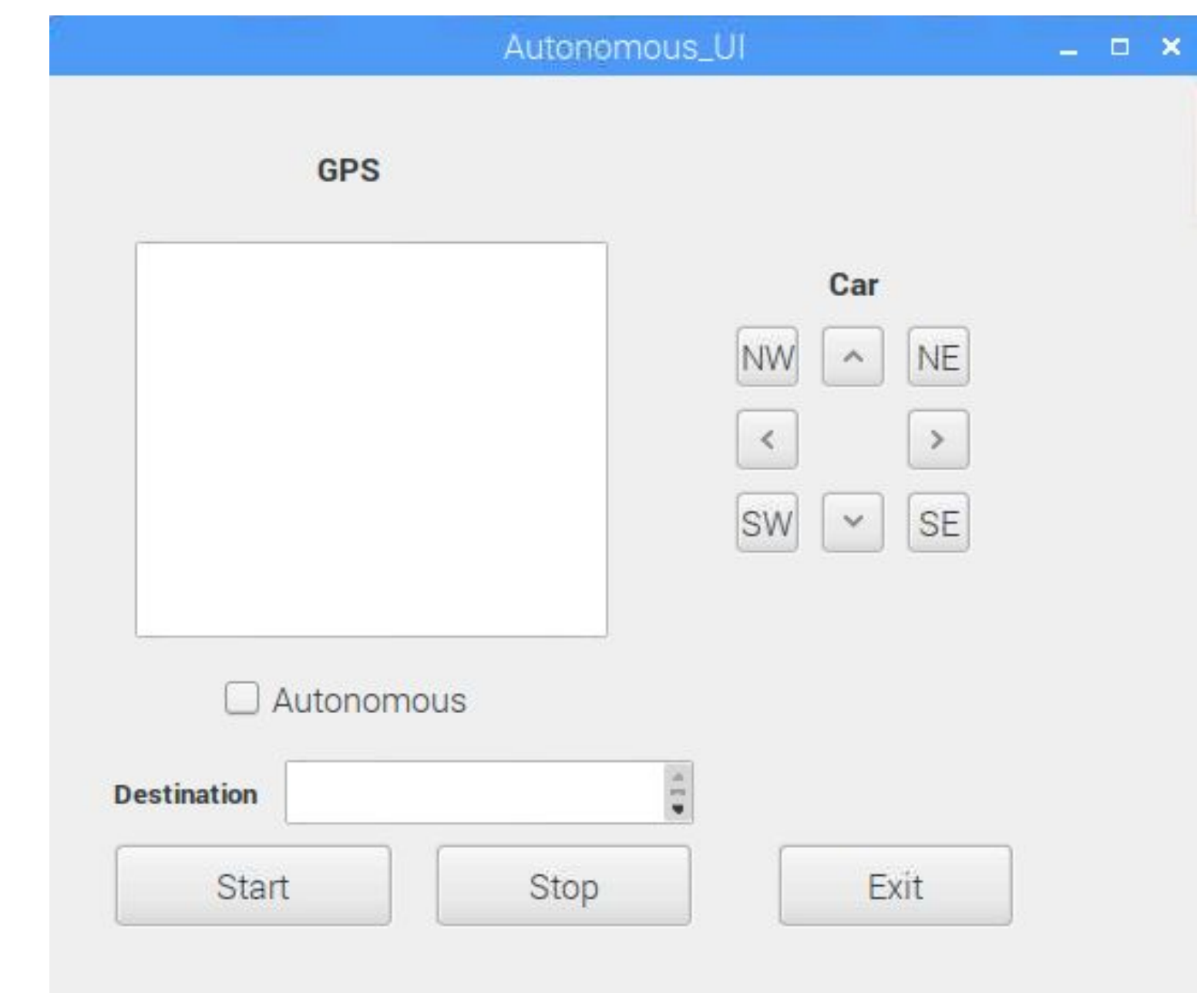


Hardware



Challenges

- ❑ Getting the GPS board to send a location, and have an external antenna
- ❑ Combining user interface with GPS data to achieve end goal
- ❑ Placing infrared sensors on the top after testing to allow for better performance in obstacle avoidance



Future Work

- ❑ Add 360 degree sensor
- ❑ Add camera

Sources

1) Google maps API 2) Adafruit Ultimate GPS

