Introduction to Embedded Systems (CSE211s) Semester Project Team (38)

Team Members:

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- **Ziad Ahmed Eped Mohamed (2000239)**
- **Ahmed Magdy Ahmed Mohamed (2001917)**
- **Abdelaziz Mohamed Mohamed Bekhet (2001028)**
- **Mohamed Nasser Sayed (1805791)**
- **Youssef Mohamed Youssef Adlan (2002245)**

Project Description:

In this project we will develop the following system using TM4C123G LaunchPad:

1. **The GPS subsystem stores the coordinates of the start point.**
2. **After reaching the destination point, the GPS subsystem stores the coordinates of the end point and calculates the total distance that was taken by the user.**
3. **The output will be translated as the following.**

   1. Stage 1: The built-in LED will be turned on(green) when the target destination is reached.

   2. Stage 2: The built-in LED will be turned on(yellow) when the target destination is about to be reached < 5 meters.

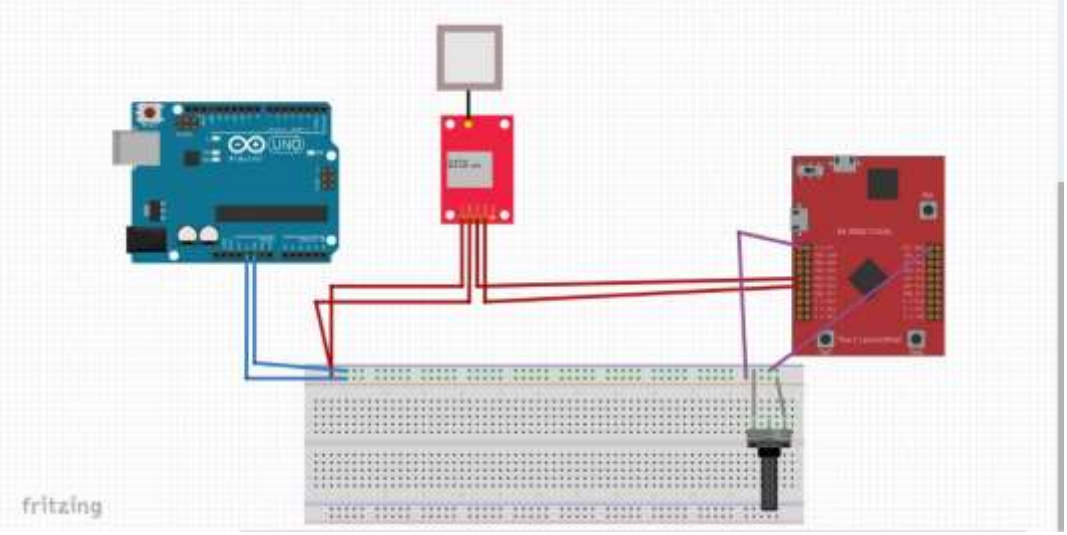
   3. Stage 3: The built-in LED will be turned on(red) when the target destination is far away by distance > 5 meters.

Contribution Table:

Member	Contributions
• Youssef Mohamed Youssef Adlan (2002245)	UART Code
• Mohamed Nasser Sayed (1805791)	GPIO Code
• Abdelaziz Mohamed Mohamed Bekhet (2001028)	Main.c & Simulation Circuit
• Ahmed Magdy Ahmed Mohamed (2001917)	LCD Code
• Ziad Ahmed Eped Mohamed (2000239)	LCD Code, GitHub

• Yossif Ibrahim Motawea Ahmed (2001218)	GPS Code & Main.c

Circuit Schematic:



Links:

- GitHub Link
- Drive Link (for photos & videos)