Outline:

1. Components
2. Cost
3. Plan & Problems
4. Groups
5. Courses

1. Components:

- 2 – STM32
- 2 – Raspberry Pi
- Server
- Sensors
- LCD Screen
- Electrical Components

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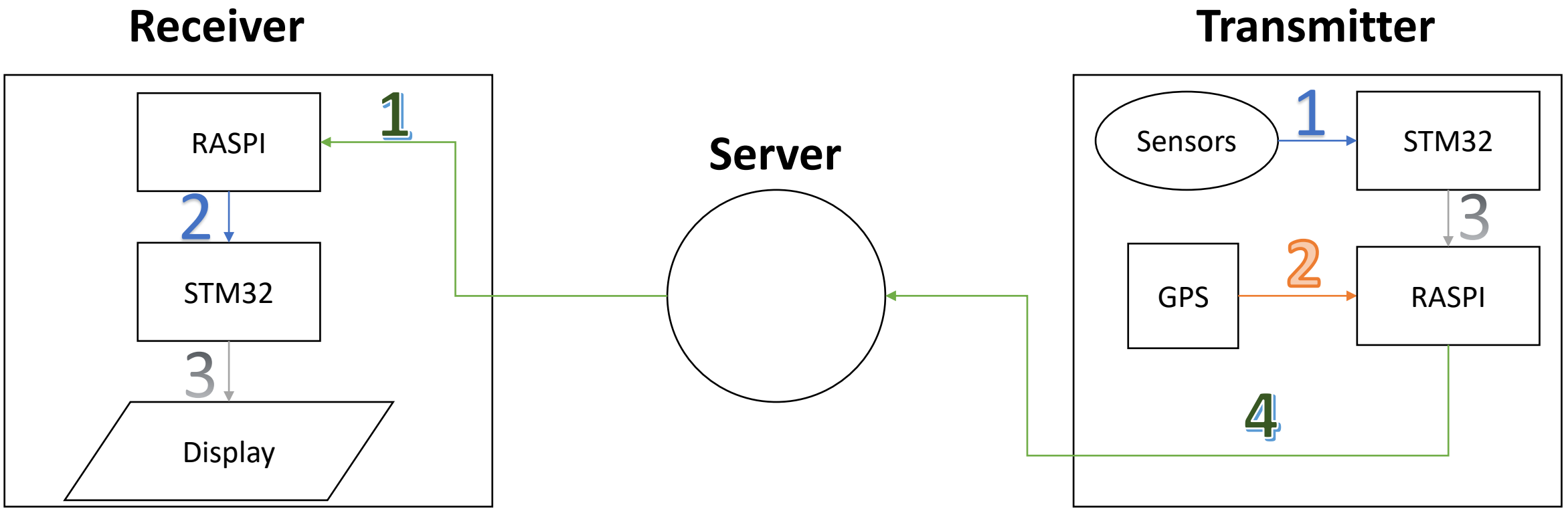
2. Cost:

- 2 – STM32 → 600
- 2 – Raspberry Pi → 0
- Server → 1000
- Sensors → 100
- LCD Screen → 50
- Electrical Components → 50

Total: 1800

250 L.E/Person



1. Communicate between RASPI and Server using Wi-Fi

2. Communicate between STM32 and RASPI using UART Protocol

3. Display output on LCD screen

1. Interface between STM & Sensors using I2C Protocol

2. Send Data about position from GPS to RASPI using Bluetooth

3. Communicate between STM32 and RASPI using UART Protocol

4. Communicate between RASPI and Server using Wi-Fi

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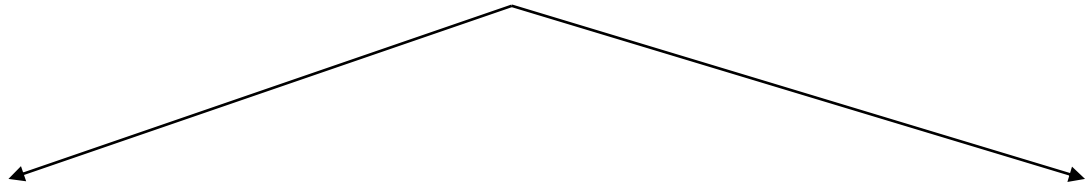
3.2 Summary



Transmitter

1. GPIO Interface
2. UART Interface
4. Wi-Fi Interface

Receiver

3. I2C Interface
5. LCD Interface

- Simplex VS Duplex

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4. Groups:

Receiver	Server	Transmitter
- Kirollos Emad - Moaz Mahmoud	- Ahmed Haissam - Yomna Farid - Yosra Mamdouh	- Ahmed Adel - Ahmed Gamal - Aya Abdelaziz

Outline:

1. ~~Components~~
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5. Courses

- Introduction on AVR
- I2C: Communication between STM and sensors
- UART: Communication between STM and RASPI
- RASPI: Wi-Fi Module
- Tutorial in Network

Outline:

1. ~~Components~~
2. ~~Cost~~
3. ~~Plan & Problems~~
4. ~~Groups~~
5. ~~Courses~~

Comments

1. Duration → two weeks: one month
2. Technical writing and book
3. Competitions