

Task 3 – Read Me

Welcome to **Task 3** of **Rapid Rescuer**! This task is divided into two sections:

Task 3A and Task 3B

Before proceeding for implementing Task 3, make sure you change the default SSID and Password of ESP32 hotspot by updating the **config.txt** file on the eYFi-Mega File Server. Refer to the section: **Set Wi-Fi SSID and Password** of Software Manual of eYFi-Mega board.

You will find the following files/folders in **Task 3** folder along with this **Read Me** file.

- [Task Submission Instructions.pdf](#): This file includes instructions for submission of Task 3.
- **Task 3A:**

Please find the following folder/files in this folder:

- ◆ ***Libraries for Reference*** folder:

- **MCP23017**: This folder contains the **.c** and **.h** files of the MCP23017 IO Port Expander IC library and of I2C protocol. It also contains [Description for MCP23017 Library.pdf](#) document which describes the important library functions.
 - **VL53L0X**: This folder contains the **.c** and **.h** files of the VL53L0X TOF sensor library, and of I2C, UART protocol. It also contains the [Application note for multiple TOF Interfacing.pdf](#) provided by ST which one can refer to understand how to interface more than one VL53L0X sensors on the same I2C Serial Clock and Data lines with micro-controller. The [Description for VL53L0X Library.pdf](#) document describes all the important library functions.
- ◆ [Problem Statement.pdf](#): This file explains the Problem Statement of Task 3A.
 - ◆ **rr_t3_client.py**: This Python file is to be used by teams while implementing the task.
 - ◆ **task_3a_cardinal.pyc**: This is a supporting file for Task 3A. Do not play with it.

➤ **Task 3B:**

Please find the following file in this folder:

- ◆ **[Theme analysis and Implementation.docx](#)**: This document consists of questions that needs to be answered by teams. Teams have to edit the document by filling in the answers of the questions asked.

... Best Wishes ! ...

