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| FUNCTION | DESCRIPTION |
| void SystemClock\_Config(void); | Configures System clock of stm32  Parameters: None  This function is automatically generated and called in the main.c file when build project in the gui is selected. |
| static void MX\_GPIO\_Init(void); | Configures GPIO pins of stm32.  Parameter: None  This function is automatically generated and called in the main.c file when build project is selected and pins are chosen as GPIO in the Gui. |
| static void MX\_ADC\_Init(void); | Configures ADC pins of stm32  Parameter: None  This function is automatically generated and called in the main.c file when build project in the gui is selected and ADC option for pins is chosen. The function can be updated by reconfiguring the pins selected. |
| static void MX\_I2C2\_Init(void); | Configure I2C pins on stm32  Parameter: None  This function is automatically generated and called in the main.c file when build project in the gui is selected and I2C2 option is selected for the pins. The function can be updated by reconfiguring the SDA and SCL pins selected. |
| static void MX\_USART2\_UART\_Init(void); | Configure uart pins on stm32  Parameter: None  This function is automatically generated and called in the main.c file when build project in the gui is selected and UART option is chosen for the pins. The function is updated by reconfiguring the TXD and RXD pins selected. |
| static void MX\_I2C1\_Init(void); | Configure I2C pins on stm32  Parameter: None  This function is automatically generated and called in the main.c file when build project in the gui is selected and I2C1 option is selected for the pins. The function is updated by reconfiguring the SDA and SCL pins selected. |
| void debugPrintln(UART\_HandleTypeDef \*uart\_handle, char out[]) | General purpose Function to send a char array over the UART and to automatically send a new line character after it. Parameters are a pointer to UART \_HandleTypeDef structure and char array.  Parameters: UART\_HandleTypeDef char \_out[]  Example: debugPrintln(&huart2, "No ACK received") |
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CODE REFERENCE DOCUMENT

The table below shows a list of all functions used for the project. All code was written using STM32 Cube IDE.