CANSAT Guidebook



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# Preparation

## Hardware Preparation

1. Check and count body part in the package

## Software Preparation

1. Install [Visual Studio Code](https://code.visualstudio.com/download) and [Arduino IDE](https://www.arduino.cc/en/software)
2. Open Arduino IDE
3. Search and Install libraries by selecting library manager on the left side

* “MS5611 by Rob Tillaart [rob.tillaart@gmail.com](mailto:rob.tillaart@gmail.com)
* “MPU6050 by Electronic Cats”
* “Adafruit GFX Library by Adafruit”
* “Adafruit SSD1306 by Adafruit”
* “LoRa by Sandeep Mistry <Sandeep.mistry@gmail.com>”

1. Open Visual Studio Code

# Setup

## Mechanical Part

How to setup CANSAT

## Programming Part

1. Open Arduino IDE
2. Click file at the top left corner
3. Select open… or Press ctrl + O
4. Select “Transmittercansat.ino”
5. Connect the USB Cable with the board
6. Connect the USB Cable with the computer
7. Select “Atmel atmega328pb Xplained mini” board and port (depends on the computer COM Port)
8. Install libraries by selecting library manager on the left side here

* MS5611 by Rob Tillaart <rob.tillaart@gmail.com>
* MPU6050 by Electronic Cats

1. Verify code
2. Upload code

## Communication Part

1. Open the program ”Visual Studio code”
2. Click file at the left corner
3. Select open folder
4. Navigate file “Communication Part”
5. Select file “Ground Station.py”
6. Open Terminal
7. Find the “Setting port and Baud rate”
8. Edit setting port and baud rate
9. Run the file
10. Open the link in the
11. Wait for 10 second for calibrate

# Troubleshoot

# Warning and Caution