**A Log of QGroundControl Customization for Vyomchara (WINDOWS)**

I was assigned the task of creating a custom version of QGroundControl for Vyomchara, VyomGCS, a project that presented significant challenges due to inadequate documentation. This document serves as a detailed log of the valuable insights I gained throughout this endeavor, offering a comprehensive guide for future reference and aiding others who may undertake similar projects.

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1. Download Git for Windows 11. You require to have GIT Bash Terminal.
2. Download C++ with Microsoft Visual Studio.

1. Download and Install Qt 6.6.3
2. Clone Master Branch of QGroundControl (QGC) From [mavlink/qgroundcontrol: Cross-platform ground control station for drones (Android, iOS, Mac OS, Linux, Windows) (github.com)](https://github.com/mavlink/qgroundcontrol) using the following command in GIT Bash.

**git clone -b master --recursive <https://github.com/mavlink/qgroundcontrol.git>**

1. Change Variable QGC\_APP\_NAME from QGroundControl to VyomGCS in the file qgroundcontrol.pro.
2. Change line 182 in src/QGCApplication.cc from "%l Daily" to "%l".

**7**. Replace Logos

- Replace the following logos in the resources folder with the VyomGCS logos:

- QGCLogoBlack

- QGCLogoFull

- QGCLogoWhite

- Ensure the logos are in `.svg` and `.png` formats.

**8**. Update Icons

- Replace qgroundcontrol.ico with the VyomGCS logo (16x16).

- Replace qgroundcontrol.png with the VyomGCS logo (512x512).

1. Removing QGC Name occurrences further:

- Modify HelpSetting.qml:

- Change names and provide links from line 37 to line 65.

- Modify src/UI/preferences/RemoteIDSetting.qml:

- Change line 933:

"Note: Even if this box is unset, VyomGCS …”

**Note 1**: Stable V4.0 uses Qt 5.15.2 and is stable, but does not support Orange Cube Drone Controller.

**Note 2**: There is a weird message about unsaved changes. Saving causes errors, so avoid saving to prevent issues.

1. Open the Project file in QT Creator 13.0.2 using the qgroundcontrol.pro file let it read.

11.Build after all these steps, Warnings are normal using Qt 6.6.3 MSVC 2019 64Bit in Release mode. The Build will be done in Build\6\_3-Release\staging where the .exe file will be made.

1. After testing the application make a installation file using Inno Setup Compiler.