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# **Canbus Explorer Documentation**

*Release 0.1.1*

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Release v0.1. (Changelog)

Canbus Explorer is a cross-platform GUI to assist in reverse engineering and debugging Canbus messages. I created this app to assist in reverse engineering the appropriate canbus messages to broadcast on my car's canbus for automating various functions.



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## Features

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- Live updating table radically simplifies canbus reverse engineering
- Cross platform
- Open source (GPLv3 licence)
- Written in Python using Qt GUI libs
- Supports ELM327/ST1110 chips in: wired, bluetooth or wifi dongles

Contents:

## Canbus Explorer: Developer Setup

I use the following tools in my development environment:

- PyCharm
- Python 2.7
- Virtualenv
- PySide (Qt GUI framework bindings)
- Setuptools
- Sphinx

I also use the following online services:

- Github
- Travis CI
- readthedocs

## Qt4 UI Workflow

Of all the possible workflows, i'm currently using Qt4 Designer to edit the `src/resources/main_window.ui` and `pyside-uic` to auto-generate a Python class containing the UI elements:

```
[user@host ~]$ pyside-uic src/resources/main_window.ui > src/canbus_explorer/autogen/main_window.py
```

This UI is then loaded in `src/canbus_explorer/gui.py`.

## RPM Package Building

Ensure the `rpm-build` package is installed, then run:

```
[user@host ~]$ python setup.py bdist_rpm --fix-python
```

This will generate an RPM package with the details from `setup.py` and the dependencies specified in `setup.cfg`.



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## Indices and tables

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