Readme

1. Hardware Requirements:

Microsoft Xbox Kinect v2.0, Windows Laptop.

- 2. Software requirements:
 - Visual Studio 2013
 - OpenCV 3.10
- 3. Edit the "OpenCV 3.1.0 64-bit" xml file: Change the path in these lines.
 - $< Additional Library Directories > \$ (OPENCV) \land \$ (Additional Library Directories) < Additional Library Directories > \$ (Additional Library Directories) < Additional Library Directories > \$ (Additional Library Directories) < Additional Library Directories > \$ (Additional Library Directories) < Additional Library Directories <$
 - <AdditionalDependencies>opencv_world310.lib;%(AdditionalDependencies)/Additi
 onalDependencies>
- 4. Compiling Kinect and Windows Code
 - Open the "Gesture" VC++ Project provided in folder Gesture.
 - Go to View -> Other Windows -> Property Manager. Select "Add Existing Property Sheet" and add the xml you just edited.
 - Go to Project -> Properties
 - In Configuration Properties, go to VC++ Directories.
 - In the "Include Directories" and "Library Directories", add the path of your OpenCV 3.1.0 "Include" and "Lib" directories.
 - Go to Linker -> Input. In Additional Dependencies, in the empty dialog box paste these lines:

```
opencv_world310.lib
```

Kinect20.lib

Kinect20.Face.lib

Kinect20.Fusion.lib

Kinect20.VisualGestureBuilder.lib

kernel32.lib

user32.lib

gdi32.lib

winspool.lib

comdlg32.lib

advapi32.lib

shell32.lib

ole32.lib

oleaut32.lib

uuid.lib odbc32.lib odbccp32.lib ws2_32.lib

Make sure to uncheck "Inherit from parent or project defaults"

- Press Ok. Save the project using Ctrl + S.
- Go to Build -> Build Gesture. The project should get built without any errors.
- Press F5 to run the project.

5. Compiling Gumstix Code.

- Compile the motor driver code m_driver.c using Makefile. Just type make.
- Make sure you do /ad/eng/courses/ec/ec535/bashrc_ec535 before doing a make.
- For the Bluetooth code b.c, compile by typing: arm-linux-gcc b.c —o b -lbluetooth

You should see few windows pop up. One of them would be feeding camera's input. Just ignore all this. You are good to go.