

Course Title: Introduction to Virtual Reality

Course Code: ENSF 545

Lab Number: 3

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Submission Date: October 30 2012

PART 1: Exercise 1

testStereoOmni Filenames:

```
./caveMain.cpp
./caveMain.h
./FaceManager.cpp
./FaceManager.h
./HapticManager.cpp
./HapticManager.h
./KNAVETest.ncb
./KNAVETest.plg
./KNAVETest.vcproj
./Makefile
./Makefile.IRIX
./OmniStereoTest.ncb
./OmniStereoTest.sln
./OmniStereoTest.suo
./Release
./Release/BuildLog.htm
./Release/caveMain.obj
./Release/FaceManager.obj
./Release/HapticManager.obj
./Release/mt.dep
./Release/testStereoOmni.exe
./Release/testStereoOmni.exe.intermediate.manifest
./Release/vc90.idb
```

Part 1: Exercise 2

Step 7:

The teapot had resistance when we touched its surface with the haptic device cursor. Additionally, the teapot alternated between red and blue each time the haptic device cursor touched it.

testTeapotOmni Filenames:

```
./main.cpp
./Release
./Release/BuildLog.htm
./Release/main.obj
./Release/mt.dep
./Release/testTeapotOmni.exe
./Release/testTeapotOmni.exe.intermediate.manifest
./Release/testTeapotOmni.pdb
```

./Release/Timer.obj
./Release/vc90.idb
./Release/vc90.pdb
./teapot.h
./teapotLab.ncb
./teapotLab.sln
./teapotLab.suo
./teapotLab.vcproj
./teapotLab.vcproj.UC_CAMPUS.jdthorne.user
./teapotLab.vcproj.UC_CAMPUS.jolin.user
./Timer.cxx
./Timer.h
./UpgradeLog.XML
./VTune
./VTune/teapotLab.vpj
./VTune/teapotLab.vws

Part 2: Exercise 3

Filenames In TestStereoOmni:

./caveMain.cpp
./caveMain.h
./FaceManager.cpp
./FaceManager.h
./HapticManager.cpp
./HapticManager.h
./KNAVETest.ncb
./KNAVETest.plg
./KNAVETest.vcproj
./KNAVETest.vcproj.UC_CAMPUS.jdthorne.user
./Makefile
./Makefile.IRIX
./OmniStereoTest.ncb
./OmniStereoTest.sln
./OmniStereoTest.suo
./Release
./Release/BuildLog.htm
./Release/caveMain.obj
./Release/FaceManager.obj
./Release/HapticManager.obj
./Release/mt.dep
./Release/testStereoOmni.exe
./Release/testStereoOmni.exe.intermediate.manifest
./Release/vc90.idb

Filenames in TestTeapotOmni:

./main.cpp
./Release
./Release/BuildLog.htm
./Release/main.obj
./Release/mt.dep
./Release/testTeapotOmni.exe
./Release/testTeapotOmni.exe.intermediate.manifest
./Release/testTeapotOmni.pdb
./Release/Timer.obj
./Release/vc90.idb
./Release/vc90.pdb
./teapot.h
./teapotLab.ncb
./teapotLab.sln
./teapotLab.suo
./teapotLab.vcproj
./teapotLab.vcproj.UC_CAMPUS.jdthorne.user
./teapotLab.vcproj.UC_CAMPUS.jolin.user
./Timer.cxx
./Timer.h
./UpgradeLog.XML
./VTune
./VTune/teapotLab.vpj
./VTune/teapotLab.vws

STEP 8:**1. Haptic feedback related code:**

Defines: HAPTIC

Variables: ghHD, ghHLRC, gTeapotShapeID, gCursorScale, gCursorDisplayList,

Functions: exitHandler(), initHL(), drawSceneHaptics(), drawHapticCursor(), updateWorkspace(), touchShapeCallback(),

2. Initializing function for haptics: initHL().