1. Compilation environment：VS2019，Qt5.9.12，vtk8.2，flann1.9.1，eigen3.4.0.
2. Module **QtRegAlgorithm**

QtRegAlgorithm is the main program item. After compiling, QtRegAlgorithm.exe is generated.

1. Module **ICPRegHxmc**

QtRegAlgorithm.exe uses only this dll control. Compile to generate ICPRegHxmc.dll.

1. Module **KNN\_hxmc**

This is the dll that does the nearest neighbor lookup. It's not in use yet.

1. Module **RegAlgrmHxmc**

This dll uses NVIDIA cuda to do nearest point lookup and some linear algebra operations (SVD and equation solving). It's not in use yet.

1. Dataset

Five sets of data were provided. Each set of data includes camera point clouds and magnetic resonance point clouds. The five points identified by MTCNN are stored in the corresponding txt file.