This document describes how to set up your Python environment to work on the tasks outlined in the **<RESEARCH DOCUMENT>**. The python packages we are exploring include:

* Computational Geometry Algorithms Library (CGAL)
  + Specifically, Point Set Processing toolset
* NearPy (nearest neighbor search in high dimensional vector spaces)
* SciPy (no installation necessary)
* NumPy (no installation necessary)

For all whl files or packages installed using pip, use the following command

***python.exe -m pip install --no-deps <package or whl file>***

This avoids the unfortunate situation of pip installing the dependencies which include versions of SciPy and NumPy which render ArcGIS completely useless.

*NOTE: I have only tested with the 32-bit Py2.7 installations of the CGAL libraries, although Geoff Taylor has successfully integrated the 64-bit Py3.4 version with Pro’s Conda Python environment. Since we have not successfully completed the tasks which may (or may not) require NearPy, a 64-bit version has not been tested.*

\*\* LIST COMMANDS TO INSTALL PYTHON PACKAGES \*\*

\*\* DESCRIBE CURRENT SOURCE CODE \*\*