1. If you run the temp file there are warning statements that show a future version of python will not allow what I am doing. If you could find the proper way to do this, that would be awesome, so that we can remove the warning signs.
2. My ENU2ECEF function has an issue with the following code. I believe I did the matrix math incorrectly. You can take a look, or I can fix it tomorrow. To make the code faster I tried to flatten out the Matrix instead of looping each row and it broke.

ecef\_x = -1\*sin\_lat\*east + sin\_long \* cos\_lat\*north + cos\_long\*cos\_lat\*up + x0

ecef\_y = cos\_lat\*east + -1\*sin\_long\*sin\_lat\*north+ -1\*cos\_long\*sin\_lat\*up + y0

ecef\_z = cos\_long\*north + -1\*sin\_long\*up + z0