RECEIVING LOOP ANTENNA EXPERIMENTING
Part One

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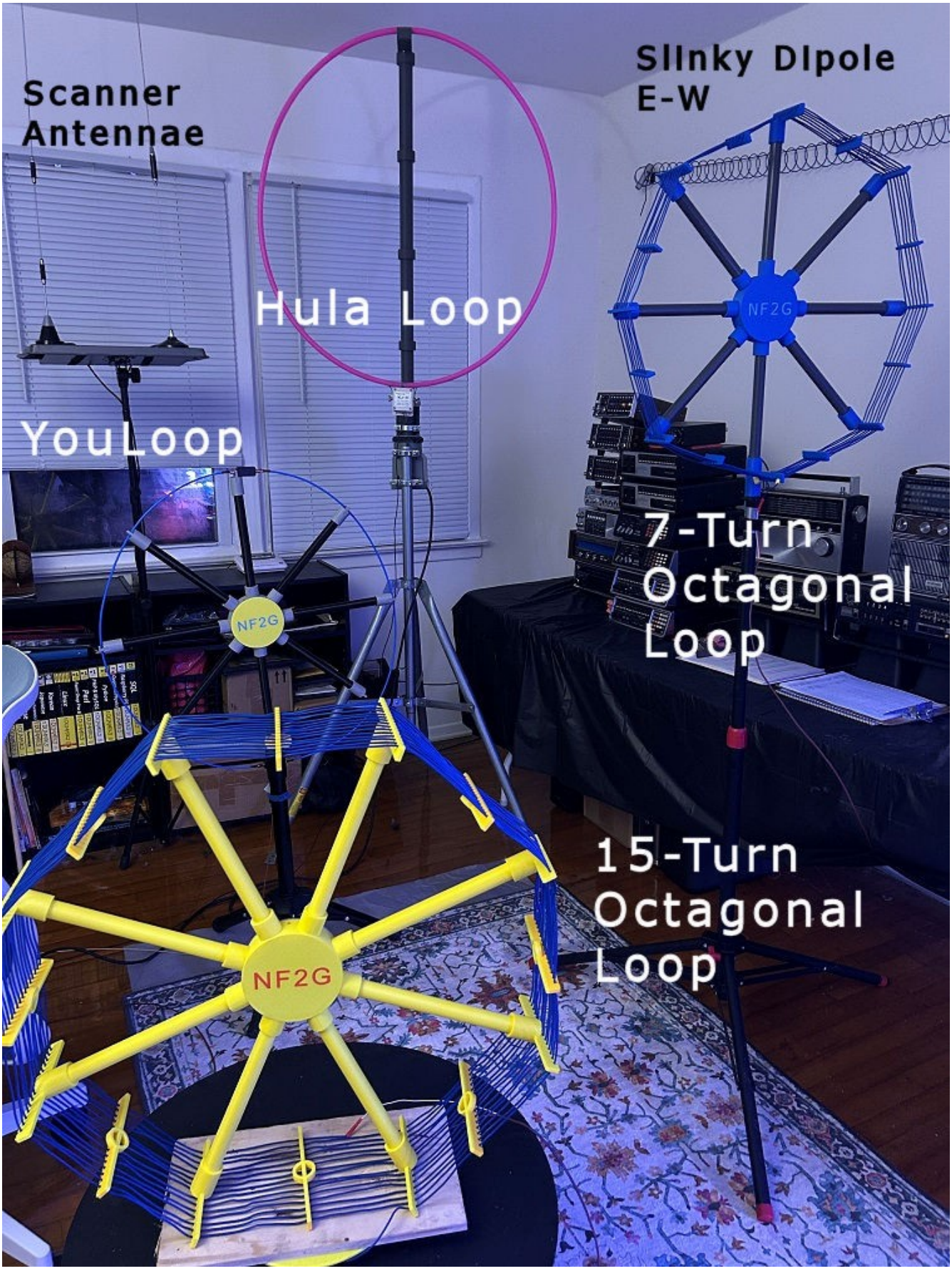
As an apartment dweller, I need good indoor antennae in order to hear or talk to anyone on the radio. I have been in my current apartment for just over one year as of this writing. Up until now, my HF antennae have been a pair of Slinky dipoles mounted on my walls perpendicular to each other. This gives me omnidirectional coverage (more or less).

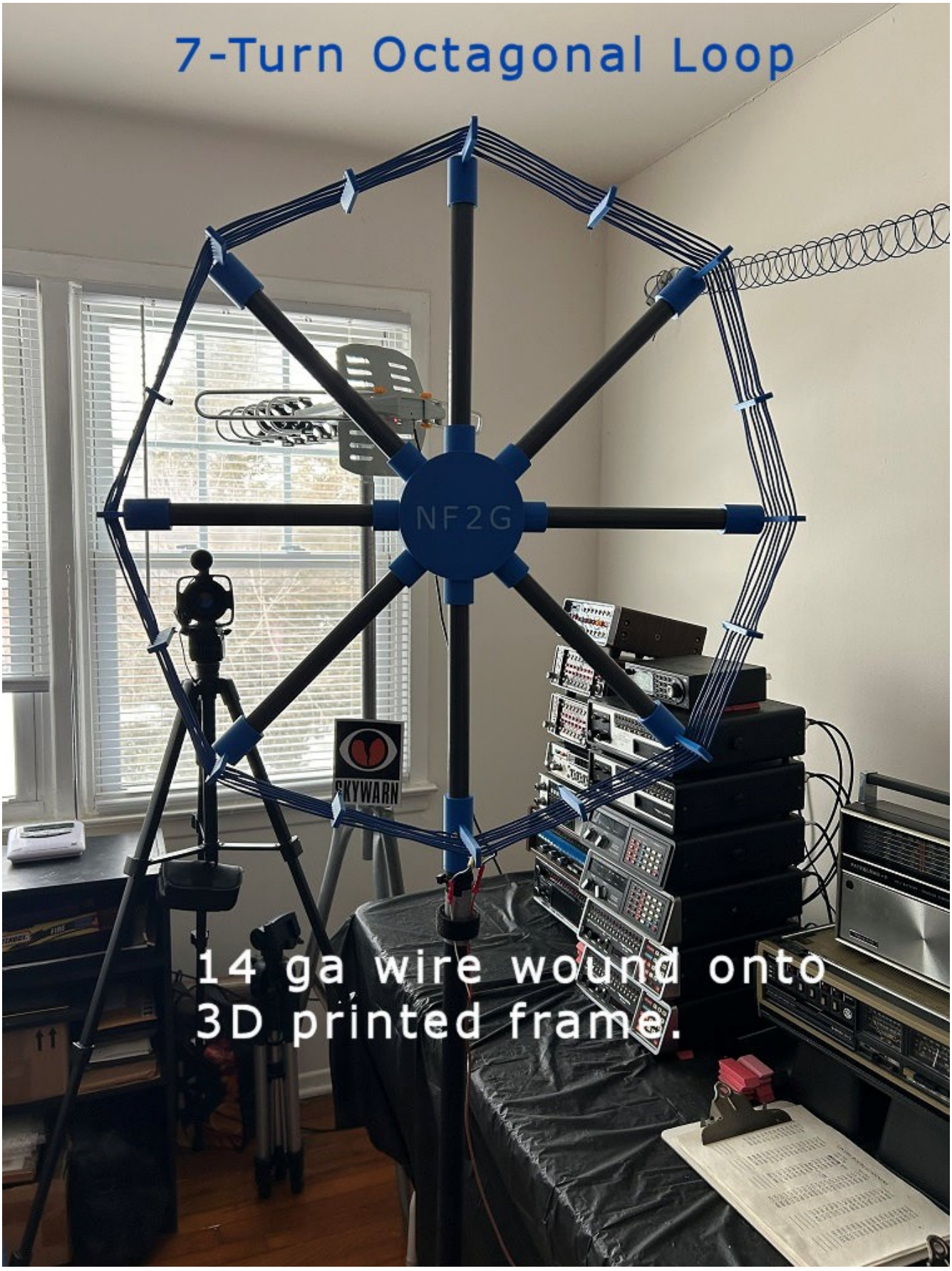
I have had a couple of loop antennas in my storage and decided to get them out and try using them. Having taken up 3D printing recently, I also noticed some designs for homebrew loops. All of my loops so far are designed only for receiving. Transmit loops are more complicated and require more parts. I might experiment in that area in the future.

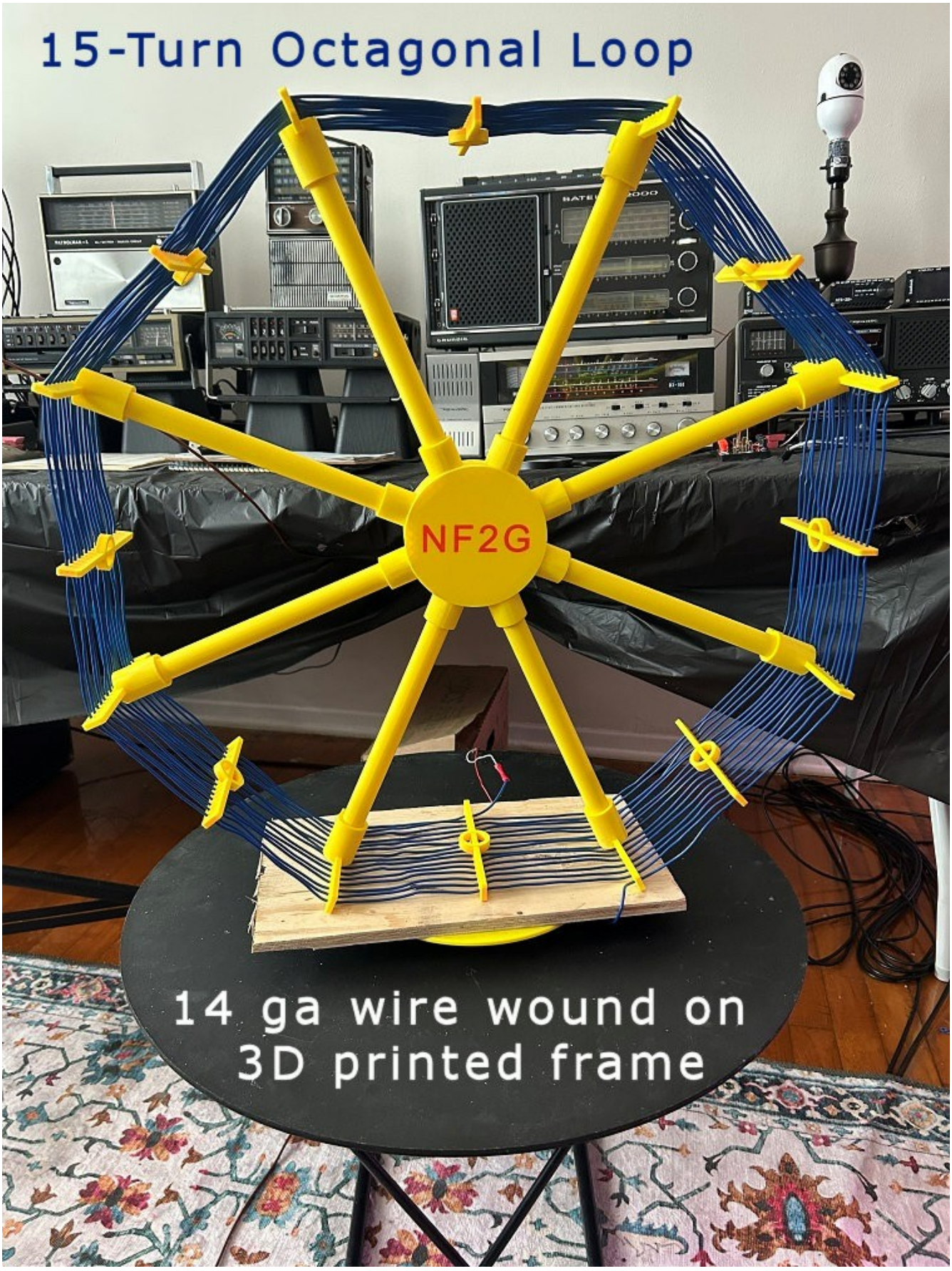
I also obtained a NanoVNA analyzer, which can tell me many things about my antennae. I will share those experiences in another installment. For now, I will show my current assortment of receive loops. Part Two will show the construction of my Hula Loop. Part Three will cover the testing and operation.

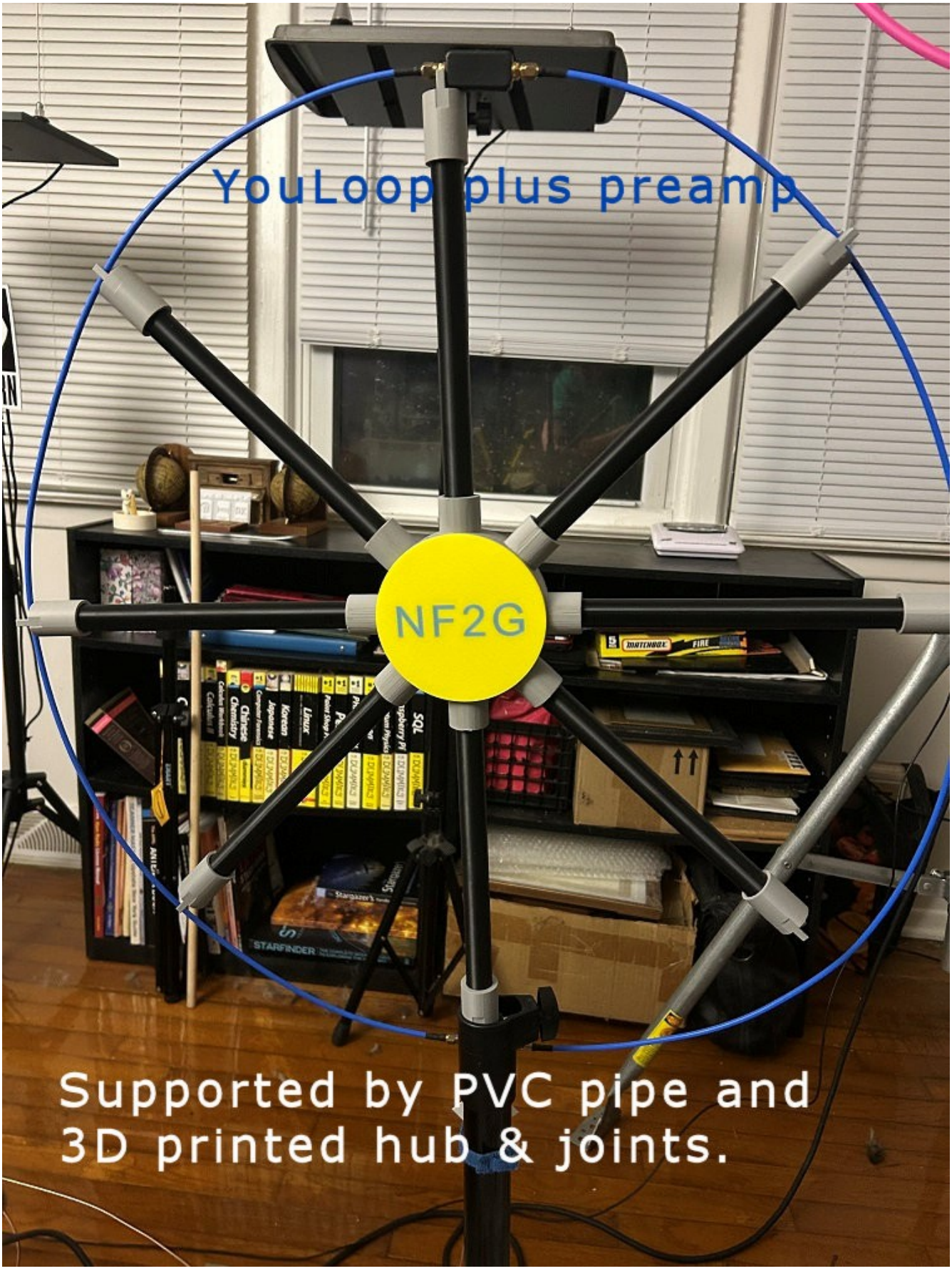
Here are the photos. If they seem large, it's because they are 4 times this size when sent from my iPhone. I haven't figured out how far I can reduce them for insertion into a document like this one.


Scanner Antennae
Hula Loop
Slinky Dipole E-W
YouLoop
7-Turn Octagonal Loop
15-Turn Octagonal Loop
NF2G
NF2G
NF2G

7-Turn Octagonal Loop




15-Turn Octagonal Loop
NF2G
14 ga wire wound on
3D printed frame


YouLoop plus preamp
NF2G
Supported by PVC pipe and
3D printed hub & joints.


Hula Loop on TV rotator
MLA-30+ amplifier
mounted at feedpoint.