



The Missing Ground Plane

RMHAM University - Nerdfest
02-12-2022

Mark – N7CTM



Agenda

- **Nerdy Things**
 - Important Things First!!
 - Site Visits
 - Events
 - Equipment
 - Misc.
 - Challenges
- **Starting Doppler Research**
 - RDF43
 - RDF43 Layout
- **The Missing Ground Plane**
- **Inside Mounting and Wiring**

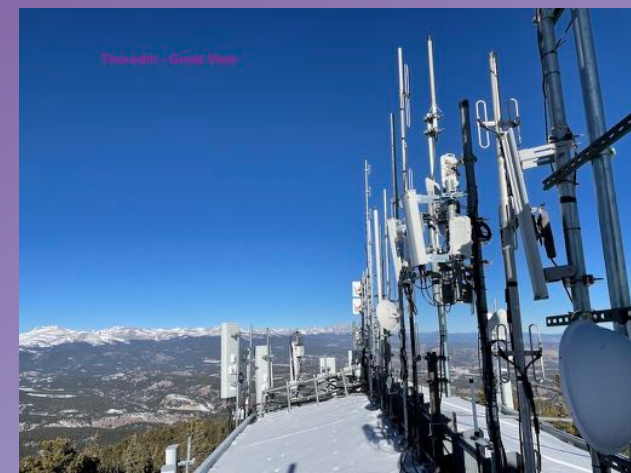
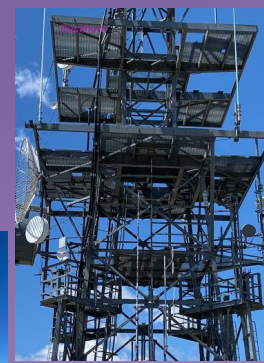


Important Things First!!



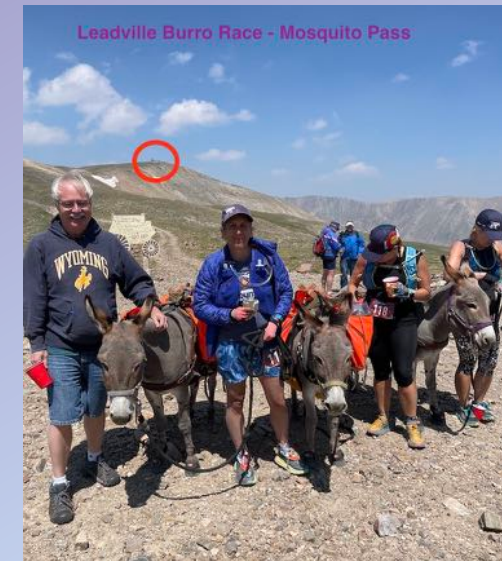


Site Visits





Events



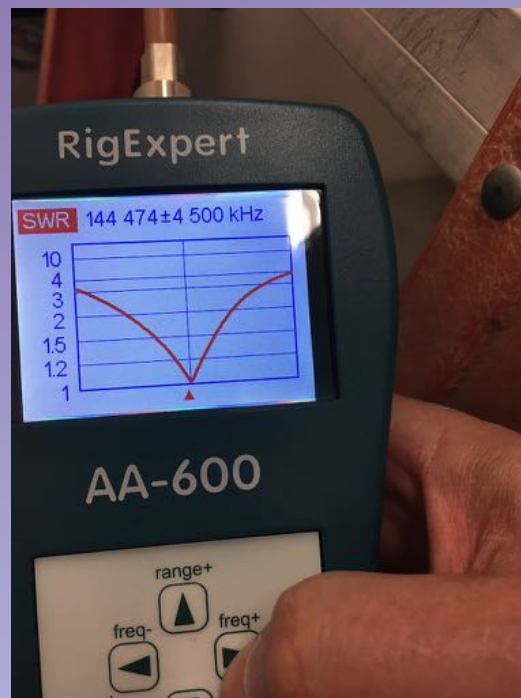
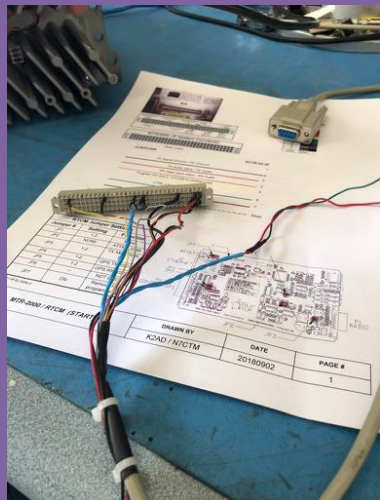


Equipment



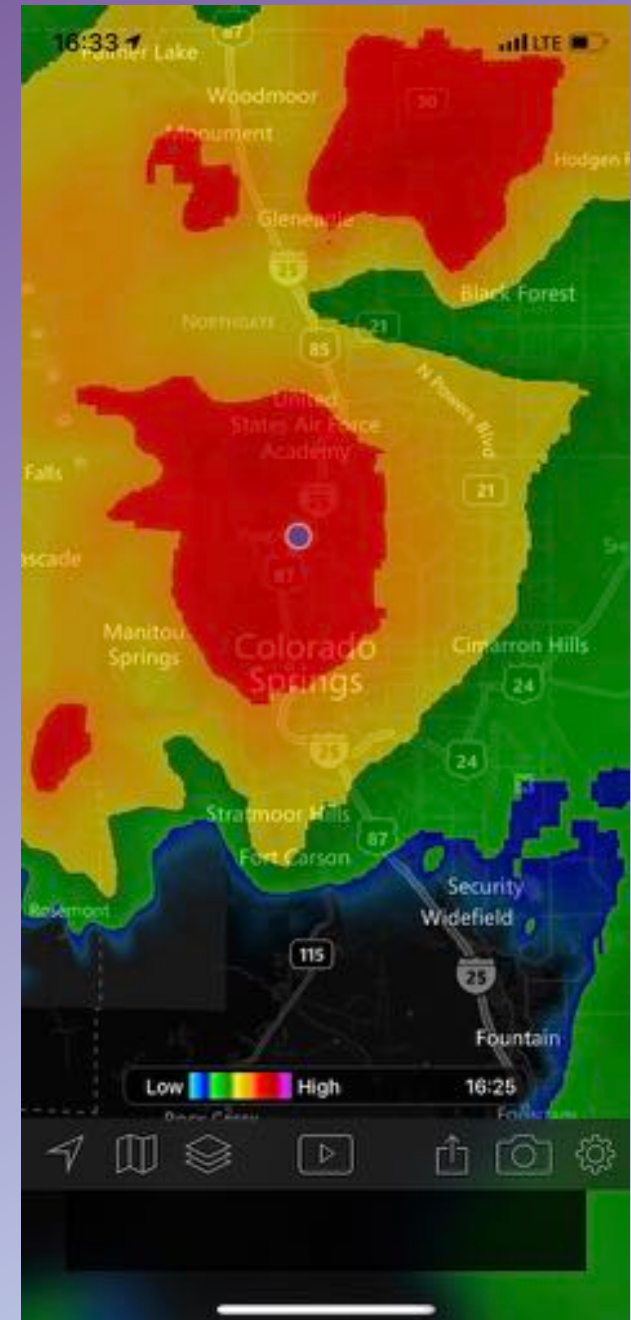


Misc.





Challenges





Starting Doppler Research

Radio Direction Finding, good challenge, great fun!
pa8w@upcmail.nl pa8wil@gmail.com

Radio Direction Finding	Building the PA8W Direction Finders	
Who's PA8W	How to locate radio transmitters?	The R0F40 development platform
My Country	Builds by other amateurs	The R0F41 microcontroller based R0F
Frequently Asked Questions	Soft vs hard antenna commutation	The R0F42 microcontroller based R0F
News & changes:	What Radio is suitable?	The R0F43 microcontroller based R0F
KIT student project uses R0F41	What's a doppler Radio Direction Finder?	The R0F43color R0F
New! Mobile VHF/UHF array!	What's an Amplitude Radio Direction Finder?	
New! MapAol!	Accuracy of a Radio Direction Finder	Some thoughts on Doppler Antenna Arrays
A radio hunt, in short	Elevation measurement	How to build a mobile VHF doppler array
FAQ added	Archives	How to build a mobile VHF/UHF doppler array
R0F43: featuring Gated Sampling	How to build the old V2.3 doppler	How to build a fixed site VHF doppler array
		How to build a fixed site VHF / UHF doppler array
		How to build a mobile UHF Amplitude array
		How to build a fixed site UHF Amplitude array
		How to build a 23cm Amplitude array
		
		MapAol: mapping software for Android



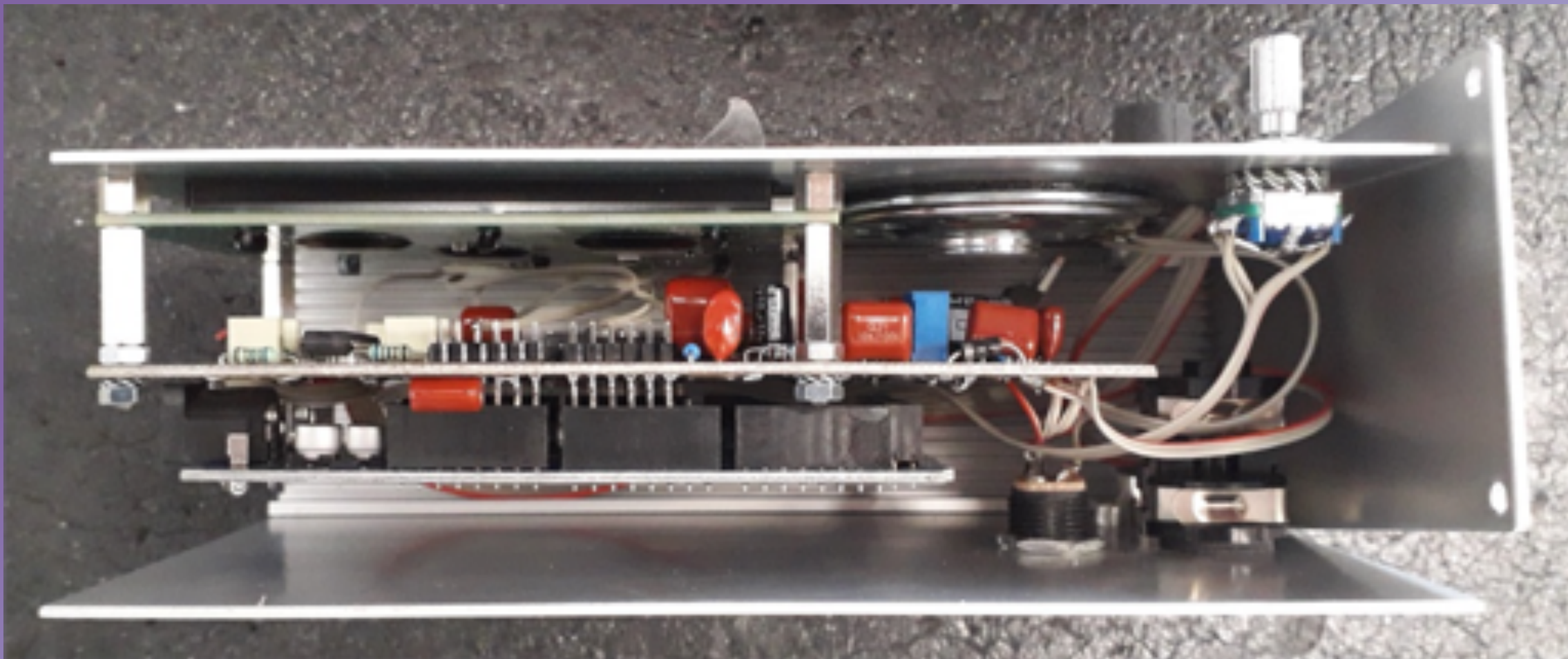
<http://www.paluidsprekers.nl/pa8w/index.html>

RDF43 Control Unit



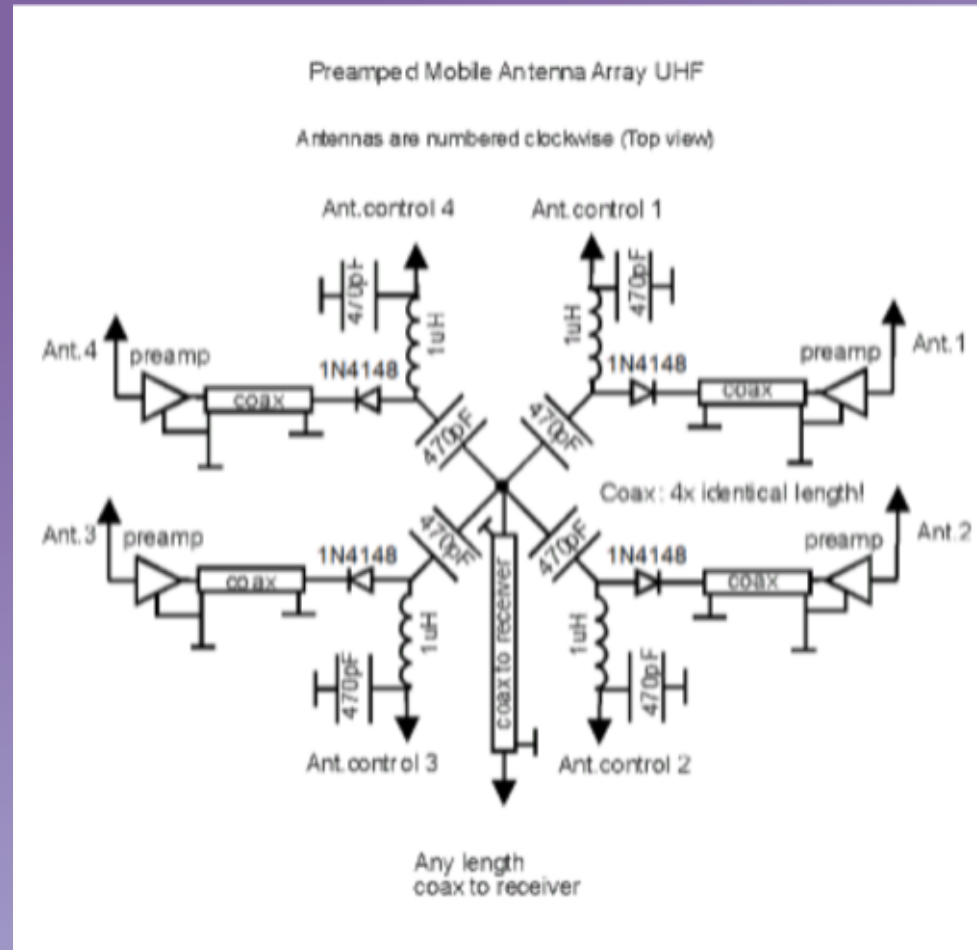
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RDF43 Layout



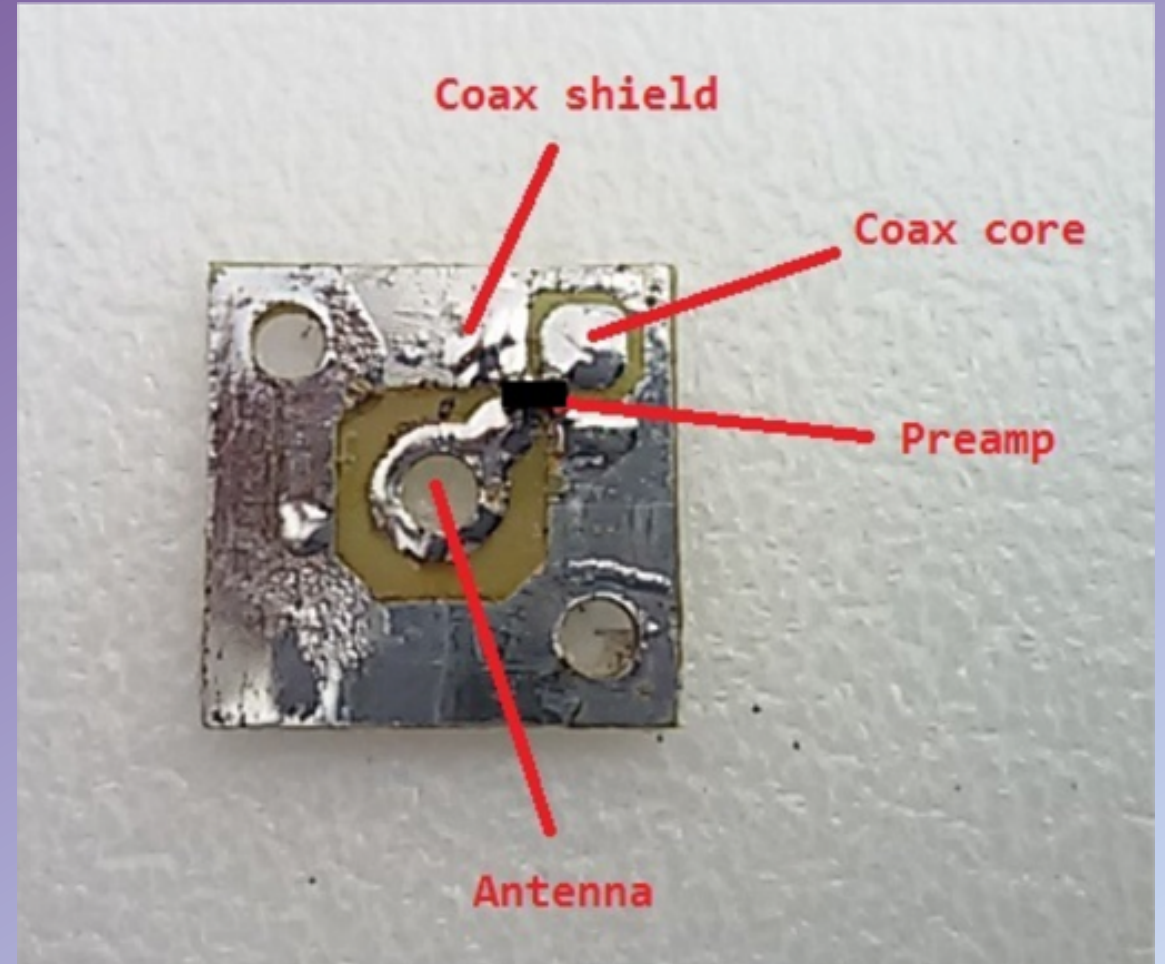
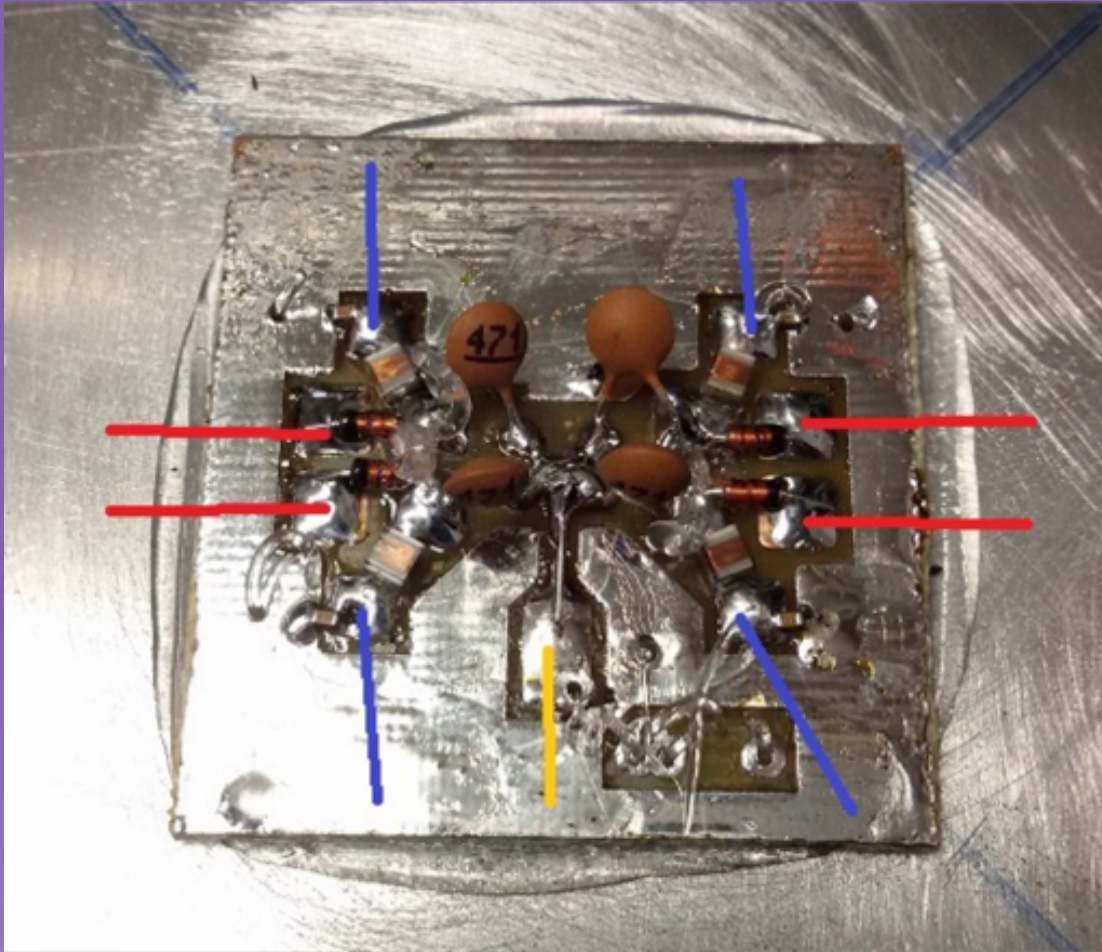
<http://www.http://www.paluidsprekers.nl/pa8w/RDF43color.html.nl/pa8w/index.html>

Schematic of Preamped Antenna Array



<http://www.http://www.paluidsprekers.nl/pa8w/MobileUHFArray.html.nl/pa8w/index.html>

Doppler Array Combiner and Preamp



<http://www.http://www.paluidsprekers.nl/pa8w/MobileUHFArray.html.nl/pa8w/index.html>



Not Much for a Ground Plane ☹️



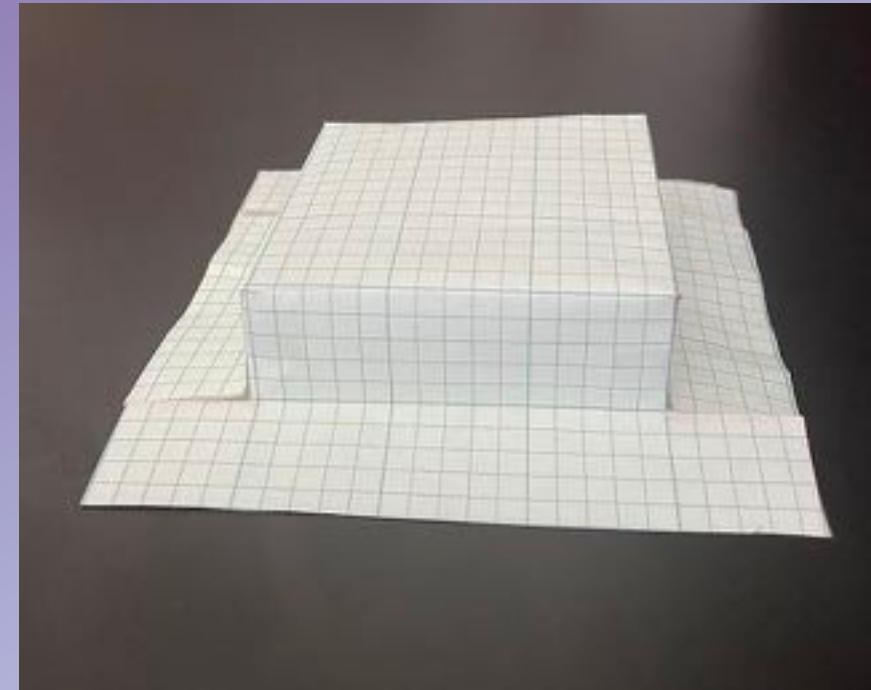
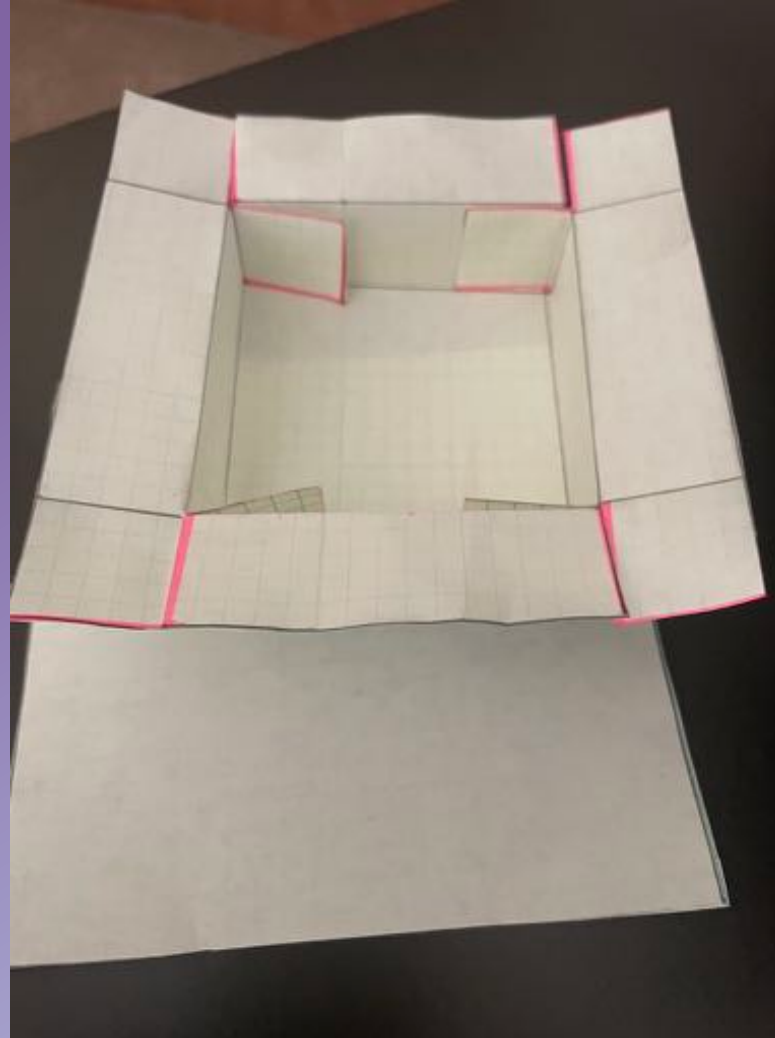
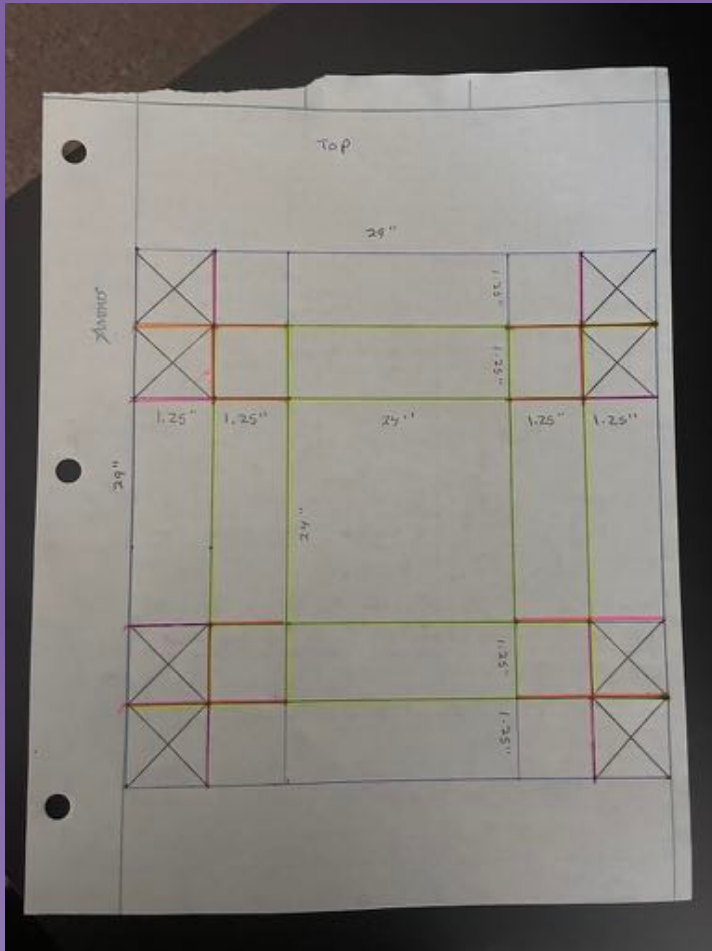


Looks Like a Good Start





Art Class 101





Making Progress





More Progress



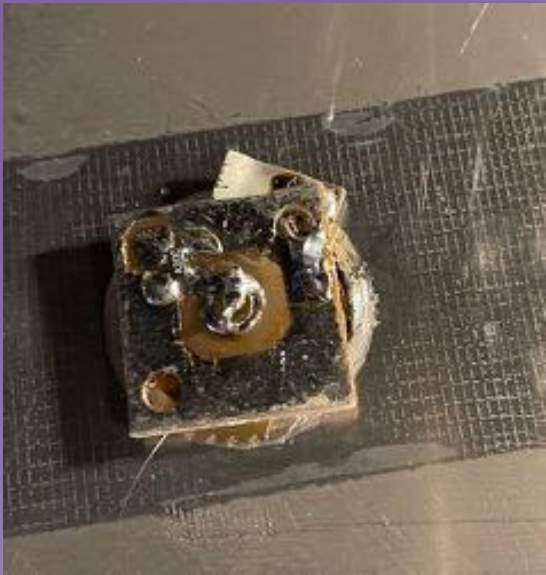


Looks Like it will Fit 😊





Getting Things Mounted



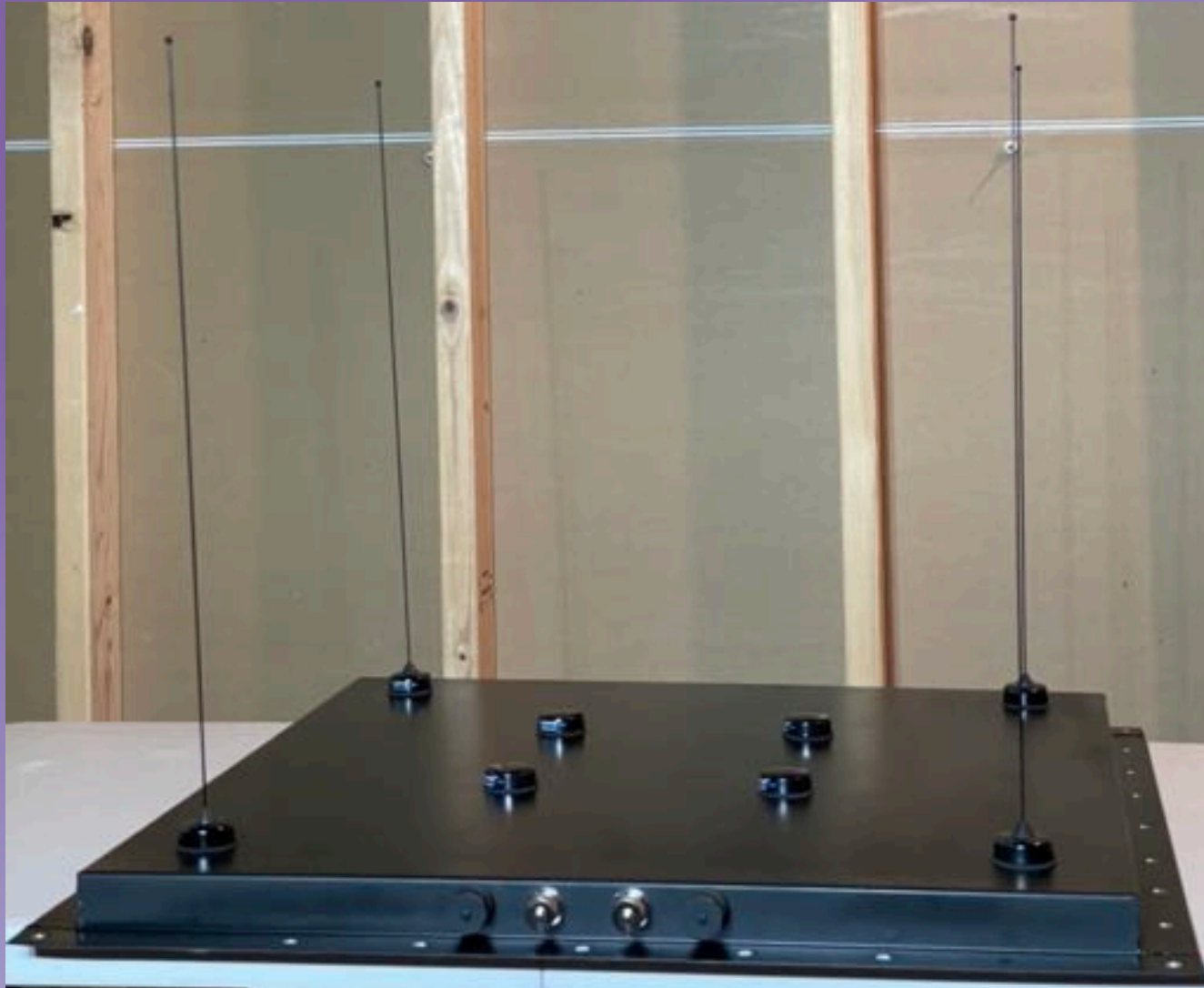


Note to Self – Don't Spray Paint in the House



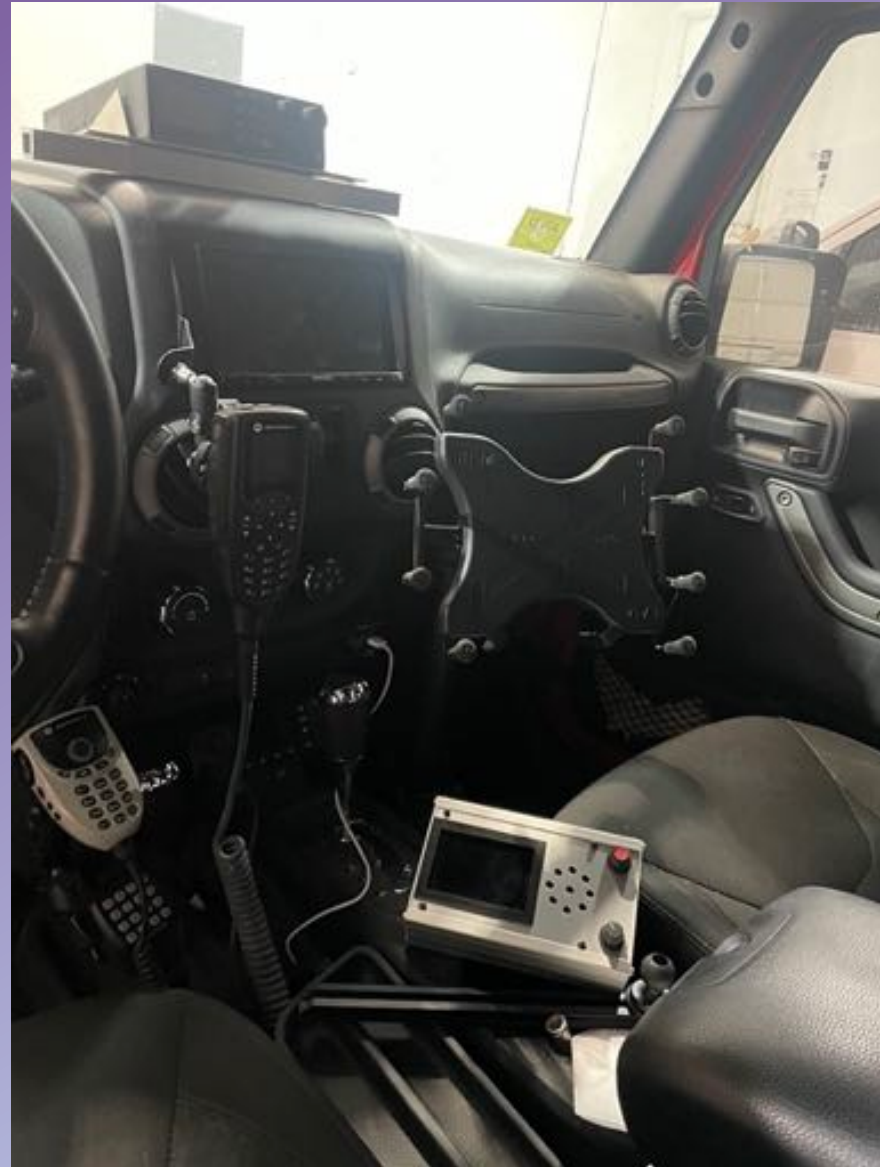


Almost Ready to Test





Next Steps is the Inside Mounting and Wiring ☹





Thank you!!

73 de
N7CTM