

Presentation: What have I been doing in the hobby of amateur radio since I obtained my license

Date: 27 November 2014

Written By: Royce Ng, 9V1AN

Why did I get involved in the hobby?

In the year 2012, I wanted to find out how could I transfer information or data to friends over long distances without depending on an internet connection.



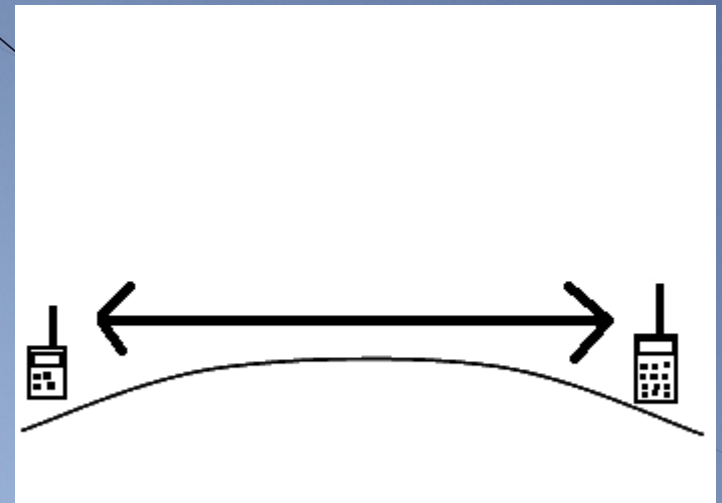
Why did I get involved in the hobby?



I was at my neighborhood hardware store one day, when I saw this kind of antenna being sold.

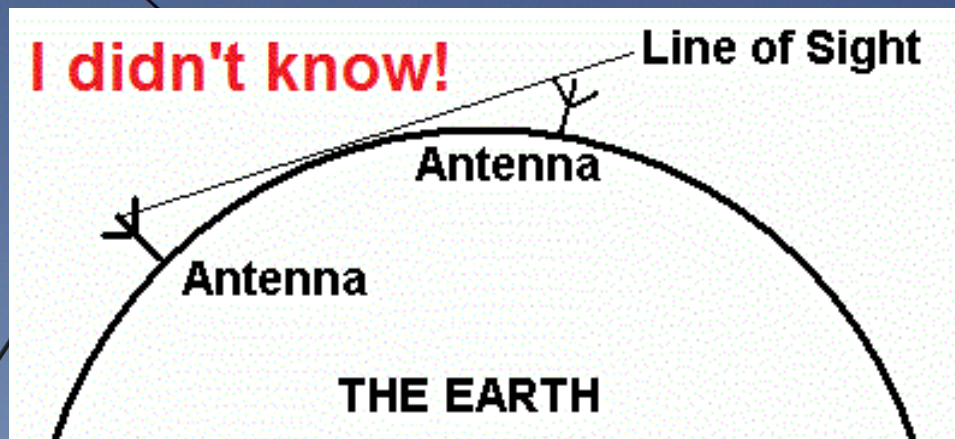
Why did I get involved in the hobby?

I thought: “Hey! If these antennas really can receive signals from Malaysian and Indonesian TV stations, maybe it can transmit as far as well! Which if it could, would be more than good enough for my application.”



Why did I get involved in the hobby?

Of course, at the time, I had completely no idea how radio signals worked. I was thinking of taking the exam and getting my license but I did not fulfill the age requirement set by IDA then. So I decided to wait until I was old enough.



Why did I get involved in the hobby?

INFO-COMMUNICATIONS DEVELOPMENT AUTHORITY OF SINGAPORE
Licensing Administrative Office
10, Pasir Panjang Road, #10-01 Mapletree Business City, Singapore 117438
Website: www.ida.gov.sg

Fax (65) 6659 2503
Enquiry Line:
62111959

iDA
SINGAPORE

AMATEUR STATION (GENERAL CLASS) LICENCE

Telecommunications Act (Cap. 323)

GST Reg. No: M9-0003780-T

Telecommunications (Radio-communication) Regulations

NG RUI JIE, ROYCE	Date	05-JUN-2014
	Client ID Et Application No.	78088/1
	Licence No.	AM114152
	Licence Fee	\$50.00
	Expiry Date	31-MAY-2015

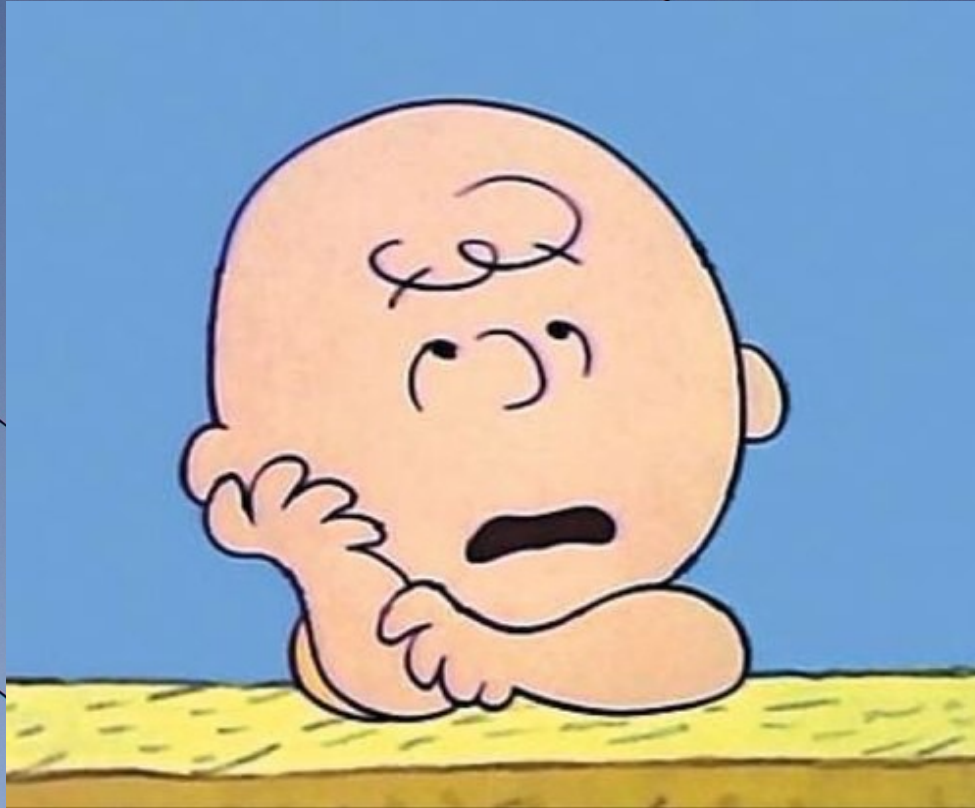
Well, now that I am old enough, got my license and am now in the hobby of Amateur Radio. Let us move on to what I have done since I got my license, shall we?

So, what have I done?



A lot of time has passed, so what have I done?

Trip(s) to NUS



One day, while sitting on a bench during physical education lesson in school and daydreaming...

Trip(s) to NUS



This person sent me a message.

Trip(s) to NUS



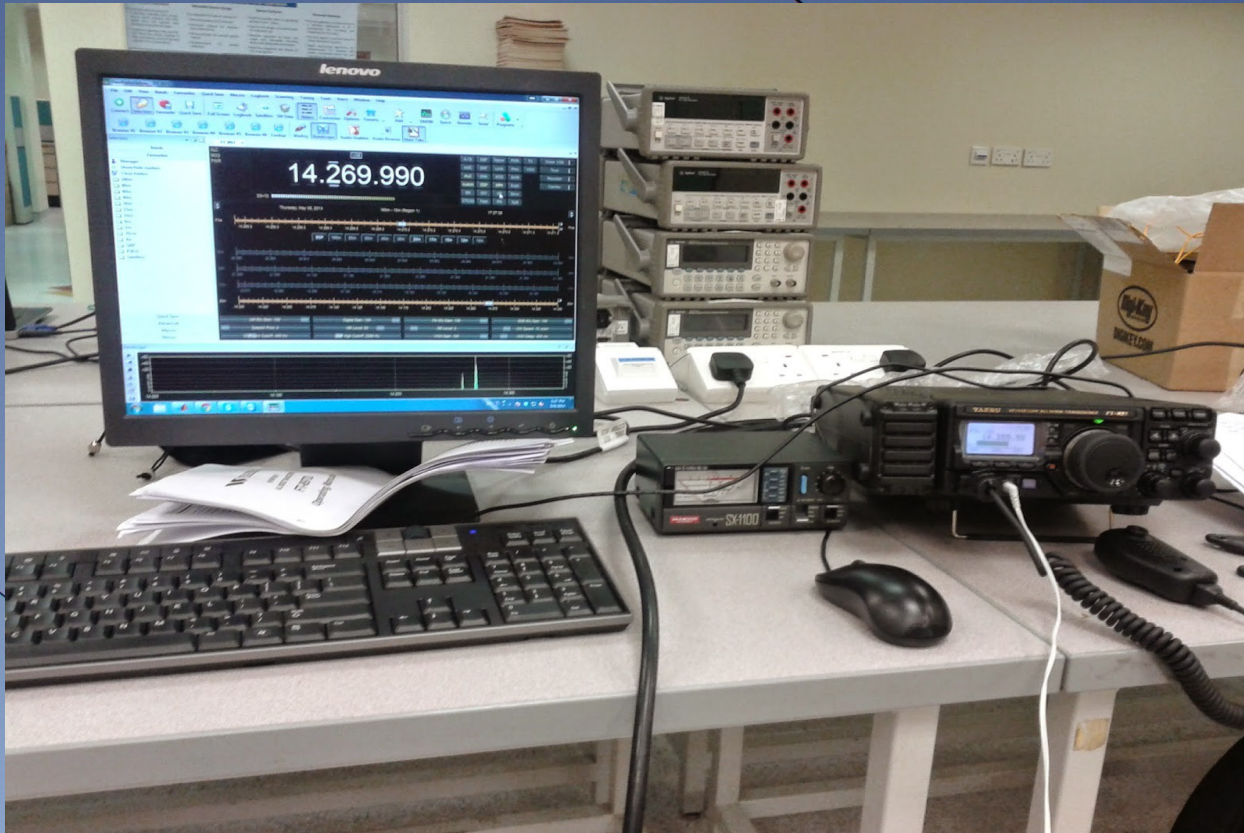
He asked me if I wanted to go to NUS and meet Dr Yong Fu at the lab. Of course, I couldn't turn down the opportunity.

Trip(s) to NUS



So I went to the lab with Mr Frankie. This is Mr Frankie operating.

Trip(s) to NUS



This is Dr Yong Fu's radio station at the NUS.

Trip(s) to NUS



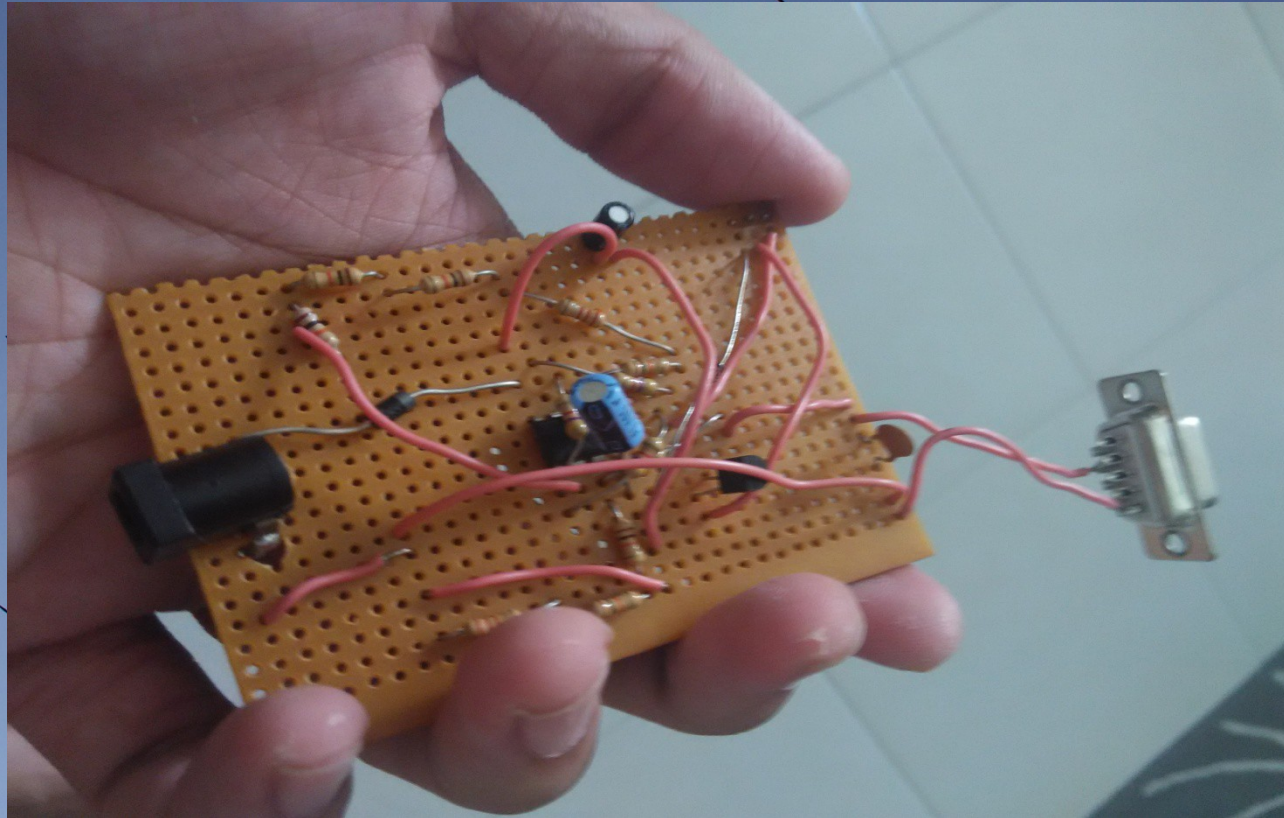
I tried experimenting with stuff, like learning how to use a development board called the Arduino.

Trip(s) to NUS



Dr Yong Fu even passed me a lot of parts! :)

Trip(s) to NUS



I tried building my own PSK31 rig with the parts. For now, its still incomplete. I might work on it soon if I don't procrastinate! :P

Setting up a fishing pole antenna



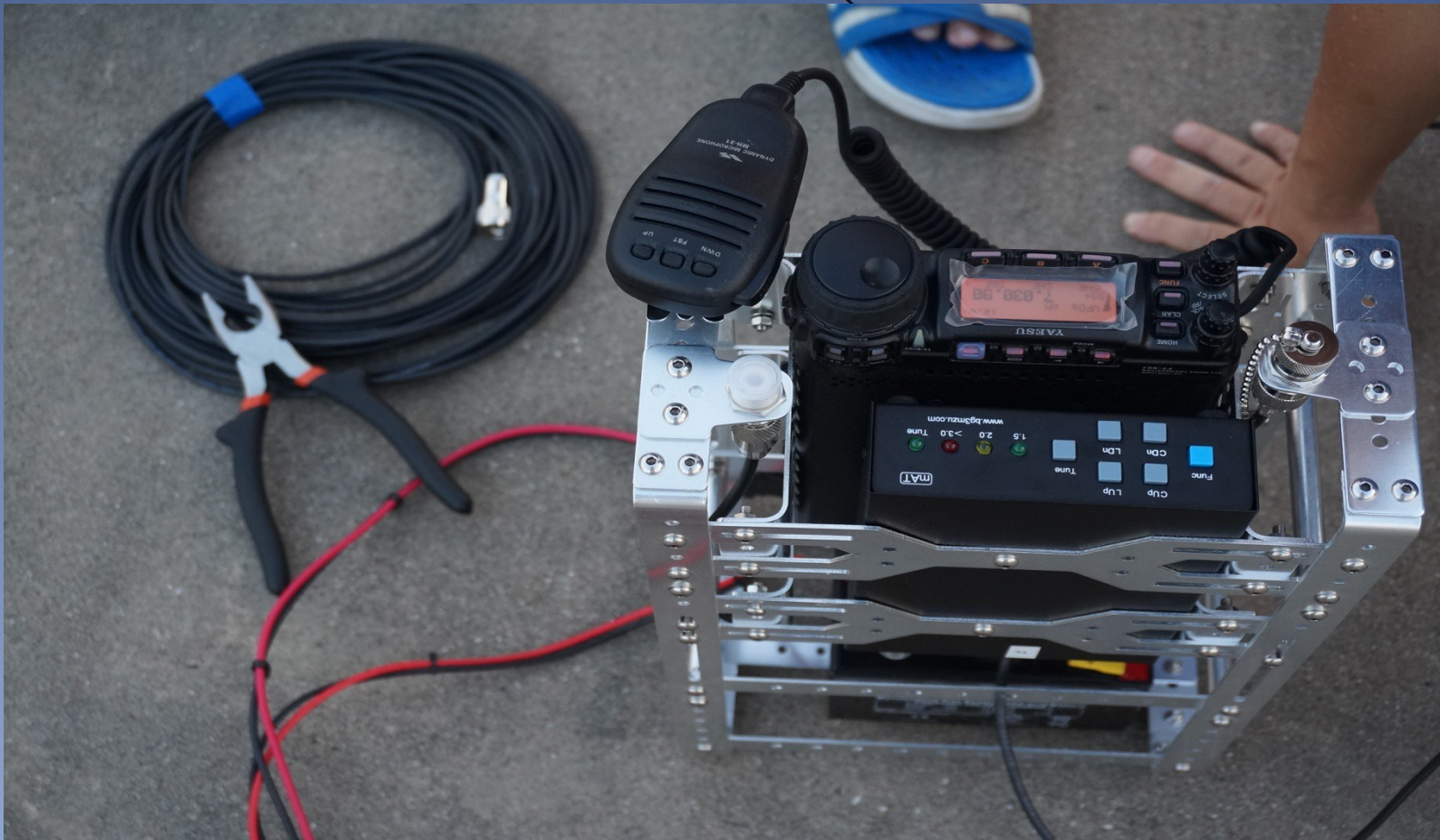
In June, we planned a DX event at West Coast Park. Mr Frankie wanted to test a double bazooka antenna mounted on a fish pole before the event.

Setting up a fishing pole antenna



We headed over to Mr Jeff's office to set it up.

Setting up a fishing pole antenna



Mr Frankie's Yaesu FT-857D powered by a lead acid battery.

Setting up a fishing pole antenna



Mr Frankie sure is proud of the set-up, that stands on its own! =P

Setting up a fishing pole antenna



The whole team standing in front of the antenna. Thanks Mdm Evelyn for helping take the photographs!

DX Event



Our equipment

DX Event



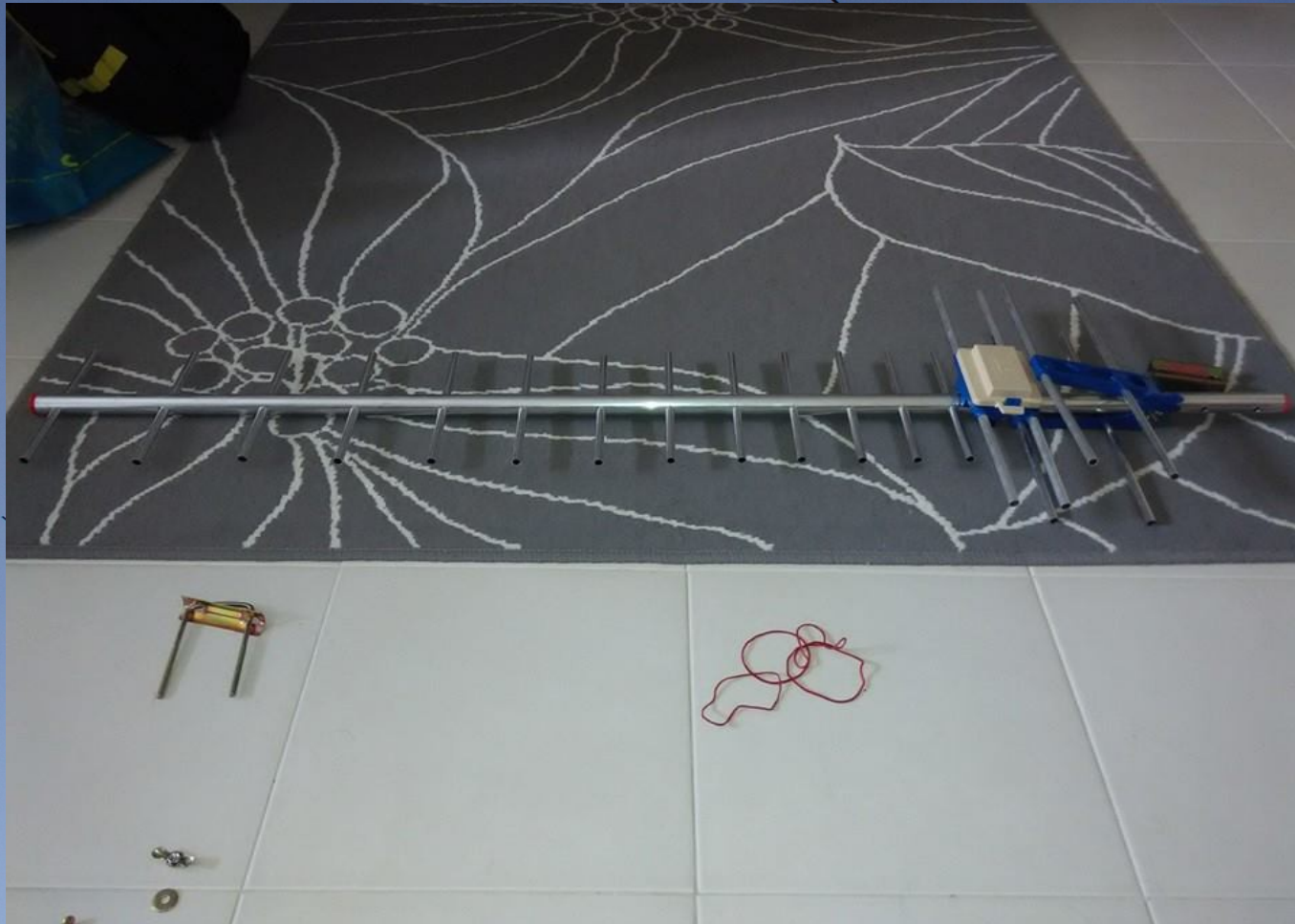
Playing with PSK 31

DX Event



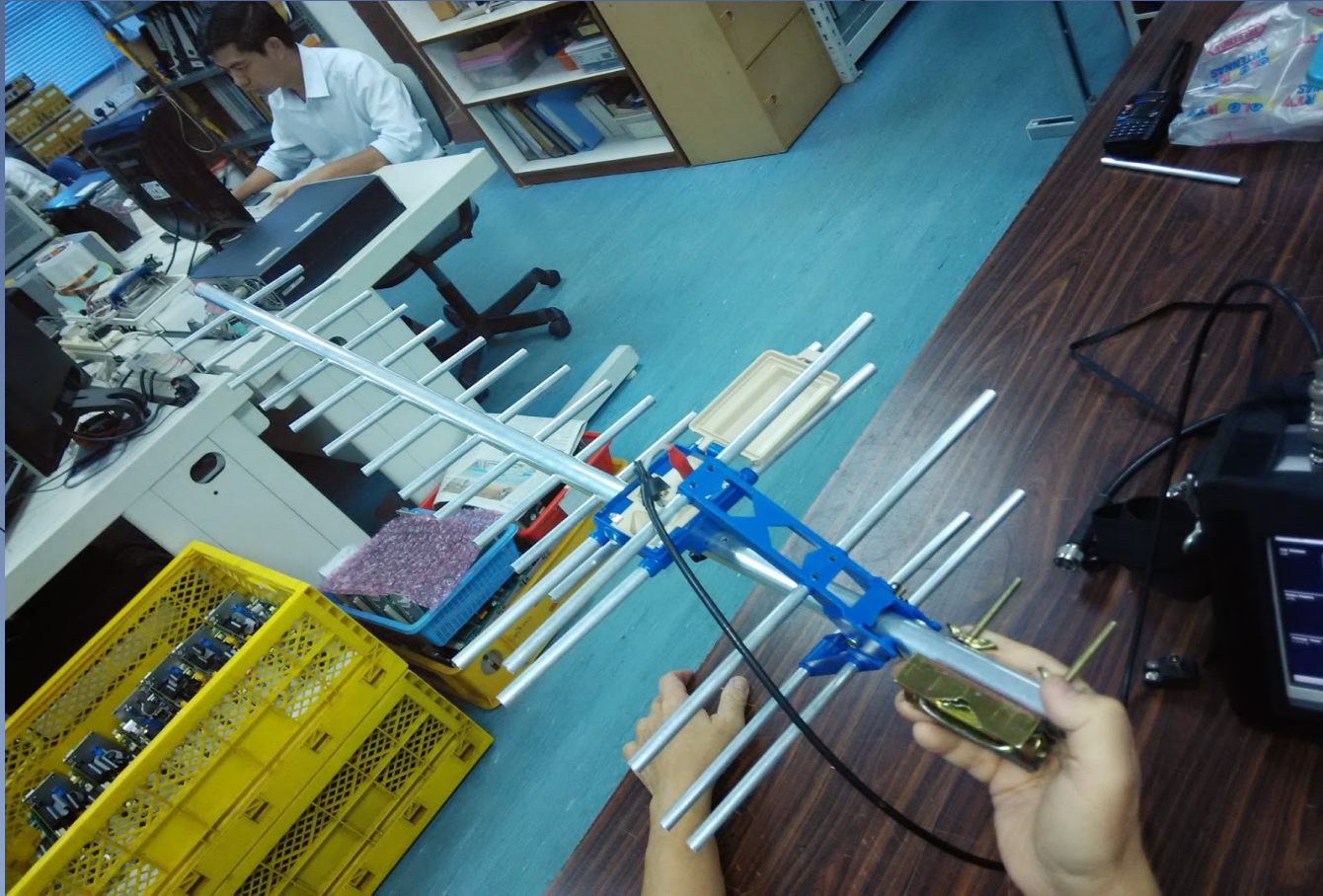
Tuning the antenna

Experimenting with a Yagi Antenna



In October, I got hold of a TV Yagi antenna.

Experimenting with a Yagi Antenna



I decided to take it to Mr Jeff's lab to test it out.

Experimenting with a Yagi Antenna



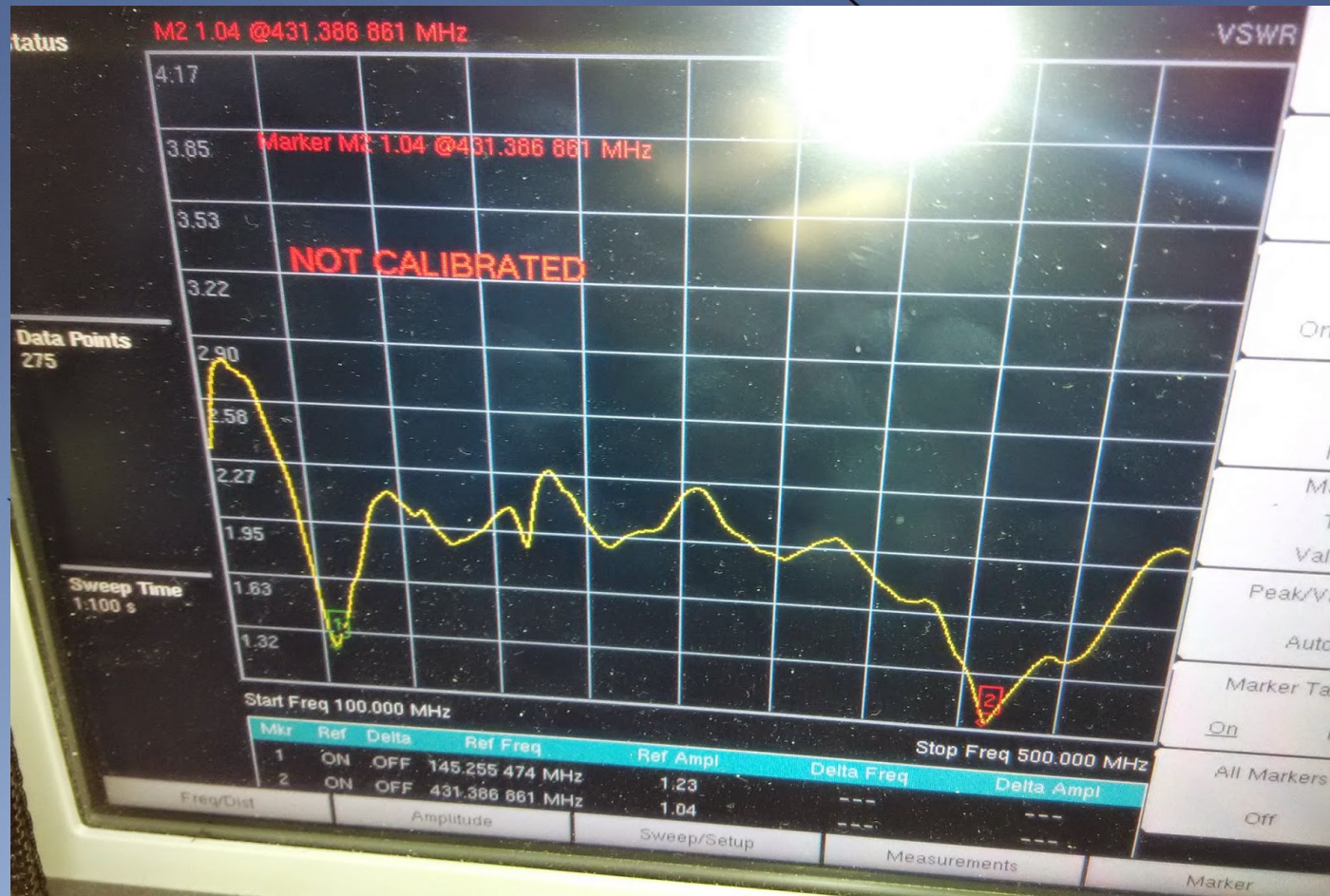
These are the results of my antenna.

Experimenting with a Yagi Antenna



I decided to compare my antenna to one made specifically to the UHF and VHF bands and see what would the difference be.

Experimenting with a Yagi Antenna



Of course, you get what you pay for, and his antenna definitely surpasses mine by a lot! :P

My first HF radio!



For months, I did not have my own HF radio.

My first HF radio!

SARTS BROADCAST: Kenwood TS-930 For Sale



Jeff N K Yeo [Add to contacts](#) 26/10/2014 [Photos](#)
Cc: Jeff IEEE

Actions

Dear member,

Here's a heads up on a rig that James Brooks 9V1YC has for sale at \$500. The matching speaker goes for an additional \$100. According to James, this rig has been approved previously by the IDA.

KENWOOD

HF TRANSCEIVER
TS-930 5W
TYPE



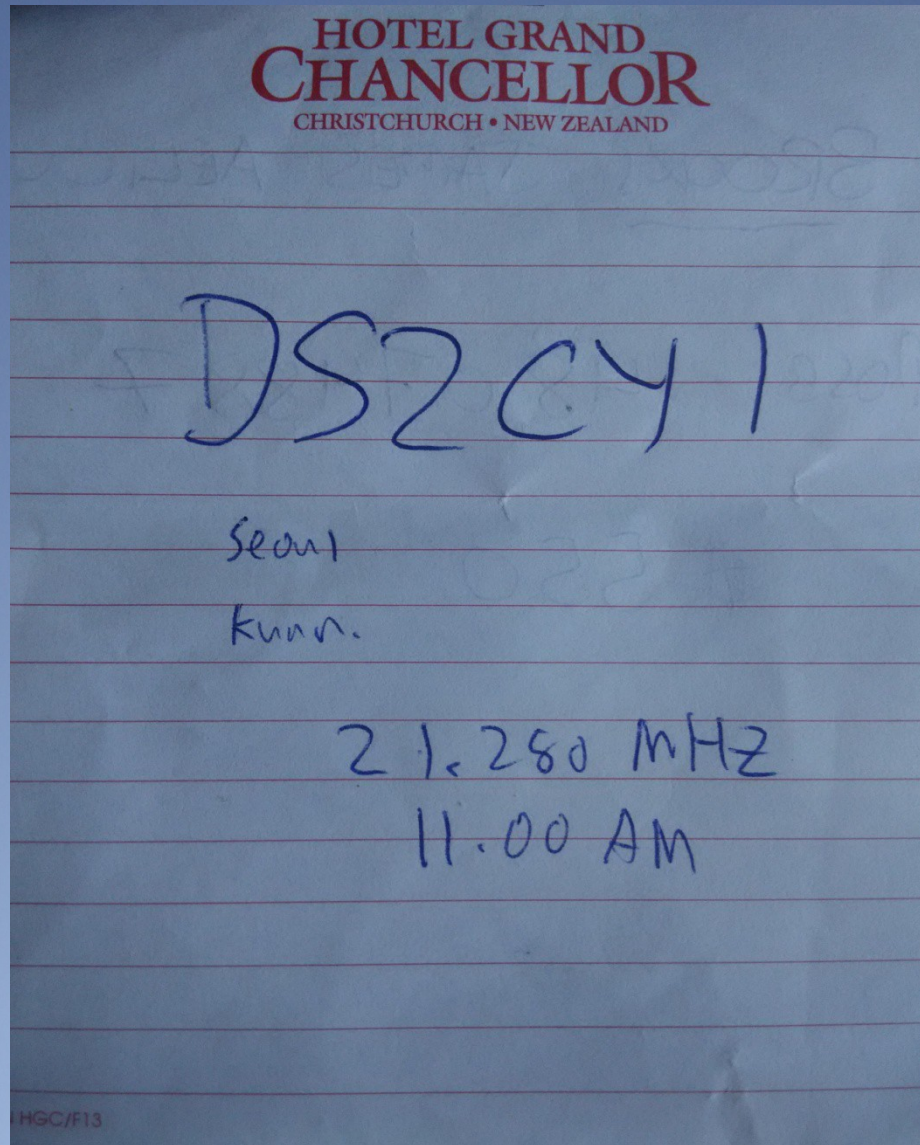
One Sunday morning, I received this email.

My first HF radio!



I visited Mr James Brooks's shack one Saturday morning, with my friend Dylan.

My first HF radio!



I made my first HF
contact at his
shack. :)

My first HF radio!



This is the same radio I used to make that contact, right in my house! :)

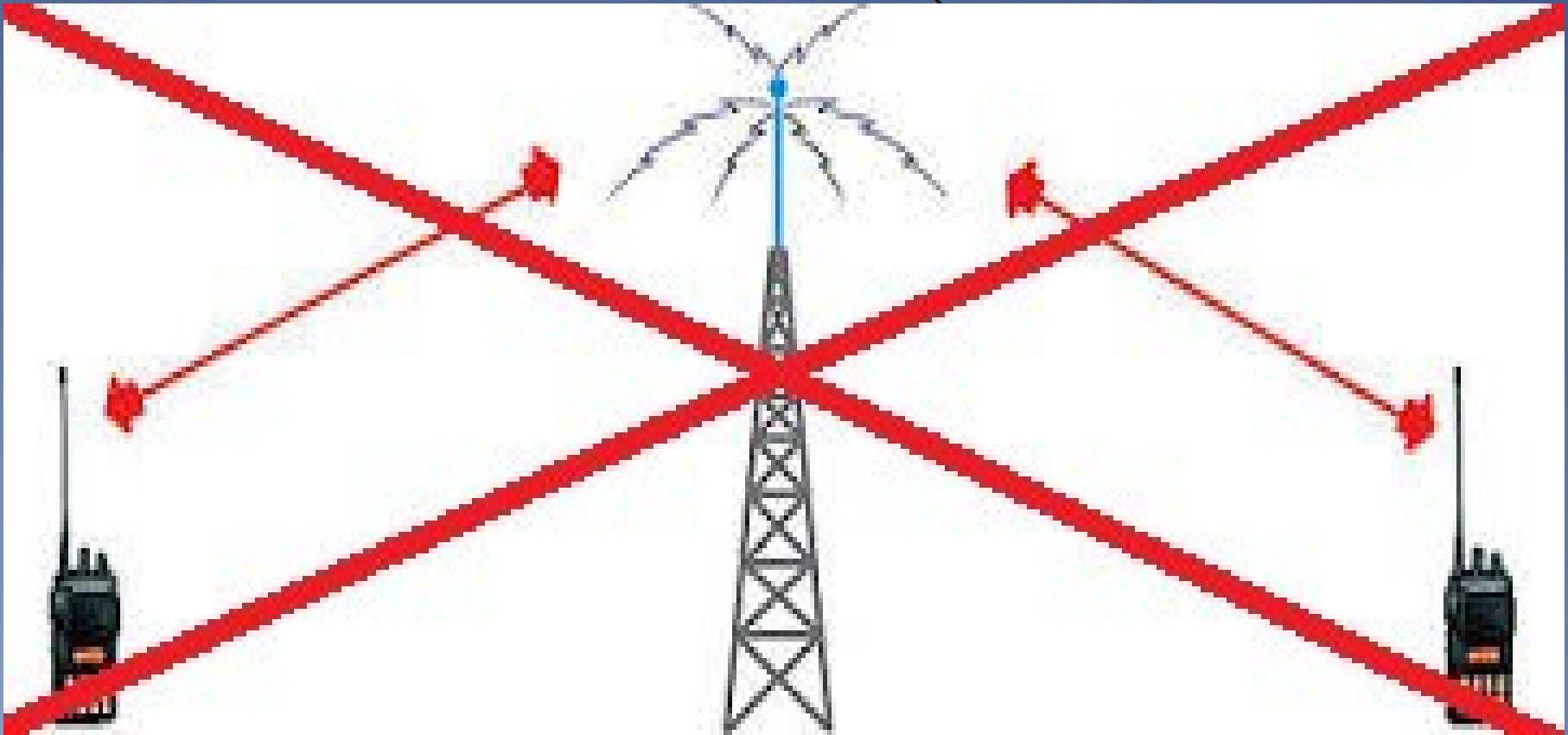
My first HF radio!

Thanks!



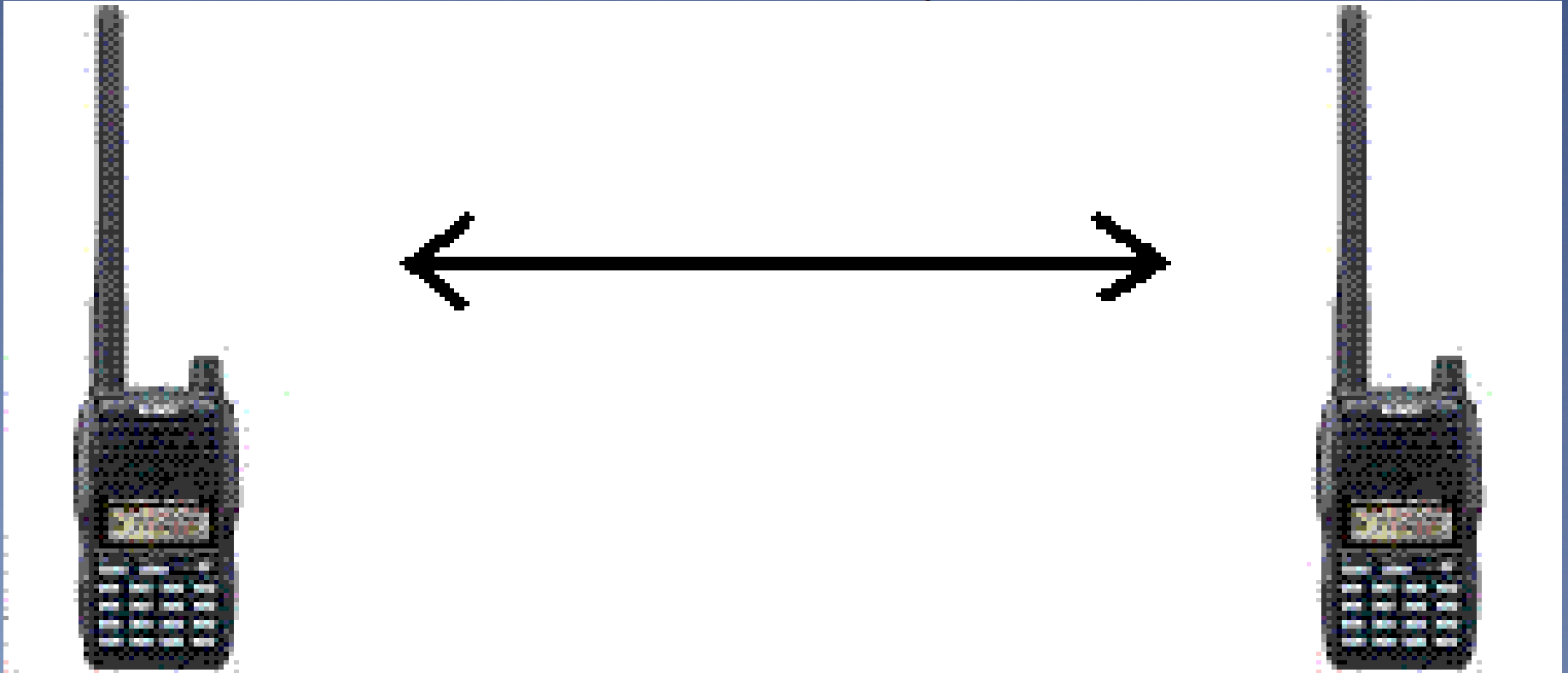
A big, big thank you to Mr Brooks, Mr Jeff, and of course Dylan! (He helped carry the 18.5 KG radio to my place :P)

VHF/UHF experiments



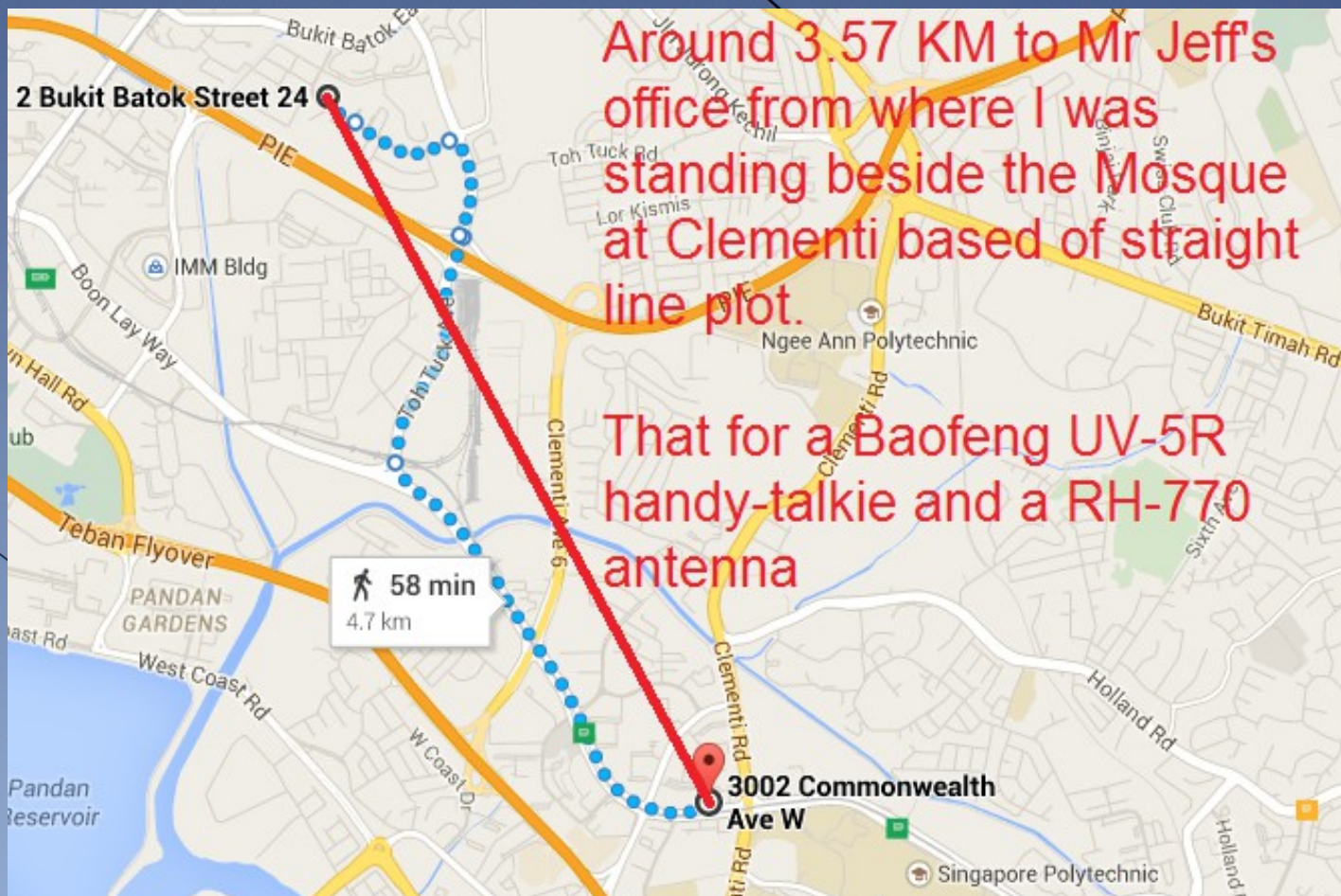
Our local repeater was down for quite a bit of time.

VHF/UHF experiments



So, I decided to experiment and see how far I can go on VHF/UHF on simplex.

VHF/UHF experiments



I also managed to contact Mr Jeff in his office from Clementi.

QSL cards that I've sent out

Confirming QSO With:
Your Station: 9V1AS
Frequency: 145.500 MHz
RST Report: 5 9
Time (UTC +8): 16:45 h
Date: 14 / 11 / 2014
Mode: FM

From Singapore

73, Royce Ng
9V1AN

QSL to Mr Jeff

Club Meetings



Of course, I kept coming to the meetings! :P

Takeaways from this experience



My thoughts about presenting here:

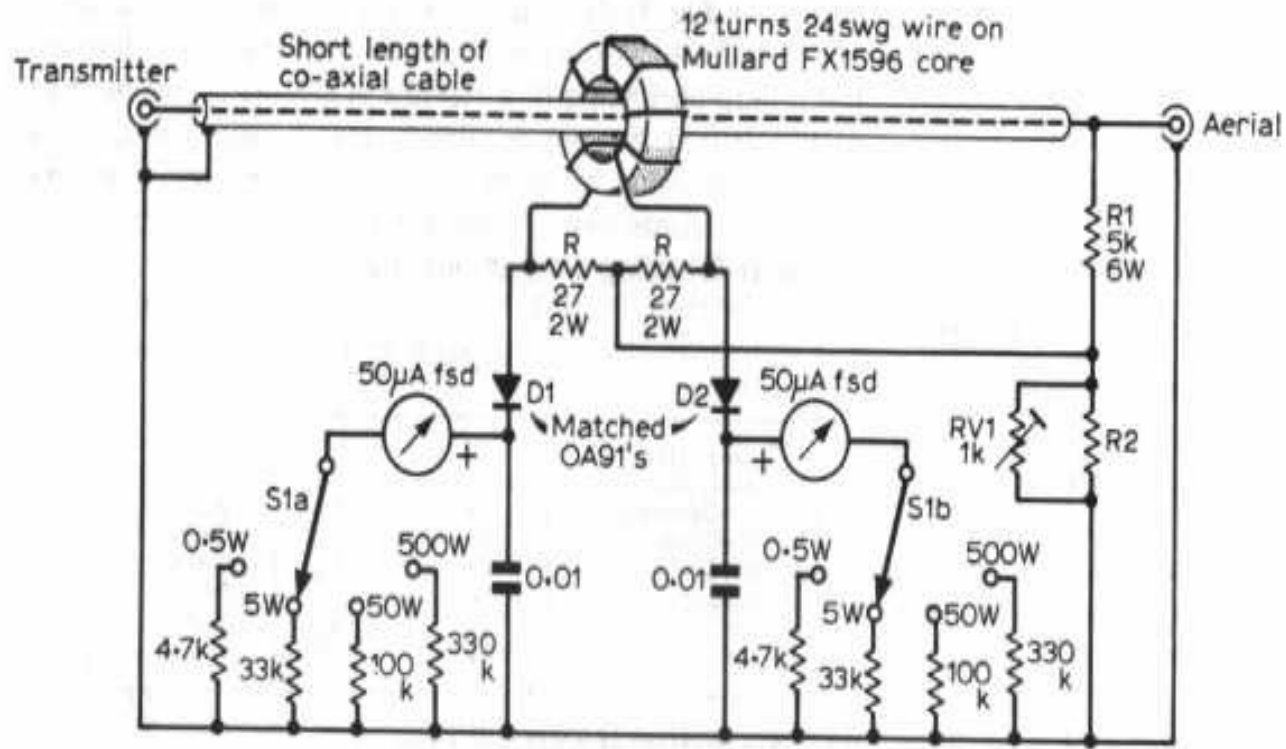
Future experiments



Modify this TV Yagi for better performance in terms of VSWR

Need to match the 75 ohm impedance of this antenna to the 50 ohm impedance of the radio.

Future experiments



DIY SWR Meter maybe?

Thanks, thanks and many more thanks!



Thanks to the people who have helped me!

The end! :)



Thanks for listening! ^.^