FROM: tom@tomthepi.com

TO: <redacted>

DATE: February 26, 2025

RE: Proxmark 3 In Lab

I’ve found a “Proxmark3 Easy”. This version has 512 kB of flash memory, so I would suggest using the “iceman” repository:

<https://github.com/RfidResearchGroup/proxmark3>

On Windows, you can download a prebuilt version from the following URL: <https://www.proxmarkbuilds.org/latest/rrg_other> . It will be in 7z archive mode – you might want a .zip instead, so I’ve uploaded a copy to our shared space as well (see my email attachment zone).

As a quick guide, here is what *I* was told to do to get started:

The reader is attached to the desk in the shared lab, with enough room now to place the card on it (see photos below). If you want to get your own Proxmark3 you could use other modes (emulation mode), this shared one can only be used for reading or writing cards.

The USB cable is the one on the “end”, because the connector can be fragile I’ve screwed the cable down. Ignore the other USB connector:

A black rectangular device with a white cord connected to it

AI-generated content may be incorrect.

After plugging in, you should see a serial port, for example on Windows in the device manager:

A close up of a white background

AI-generated content may be incorrect.

If you unplug it, the serial port should disappear. If this happens it is good news for you! If you don’t have a driver, you may need to install the driver from the Windows installer.

To run proxmark3 on Windows, extract the .zip file (do NOT just “open” the zipfile). Then run the pm3.bat script by double-clicking on it:



From there – you should see the promark3 detected. You’ll see a similar result running the utility on Windows, Mac, or Linux if you run the ‘pm3’ command. On the other platforms you may need to build it from source:

A screenshot of a computer

AI-generated content may be incorrect.

You may get a warning about “firmware mismatch” if building your own version of Proxmark like this:

A screen shot of a computer code

AI-generated content may be incorrect.

Try using it as it would be *better not to reflash (this can brick it)*. Building a new version of Proxmark3 from the “iceman” repo (<https://github.com/RfidResearchGroup/proxmark3> ) seems to work for the commands we need. Using older prebuilt Proxmark3 utilities might not work.

If someone else has reflashed it, you can run the “pm3-flash-all” command – on the Windows installer there is a pm3-flash-all.bat that should work. This command reloads the firmware so it exactly matches the utility version.

From here you are on your own – I don’t know much about using this thing! But I did test that you can find a high frequency tag by putting it on the “lower” side like this:

A small square device with a white square on a wood surface

AI-generated content may be incorrect.

And running:

**hf search**

inside the pm3 utility should yield a hit like:

A computer screen shot of a black screen

AI-generated content may be incorrect.

And a low-frequency tag OR card on the “upper” side like this:

A white rectangular object with black and yellow wires attached to a wood surface

AI-generated content may be incorrect.

And running:

**lf search**

Should also yield some information.

Be aware that cards & tags can both be HF or LF! That “clone” card I left for you before might yield some information about what you need to clone it – after all that “clone” card I left you was one someone programmed, maybe you can find the chip & order it?

You may need to hold things at angles as well – especially with the HF antenna, there is some metal (screws) around it. Most tap credit cards are HF cards for example, but I needed to hold one at a slight angle like this:



Best of luck – I can’t provide much more help, but hopefully you can find the resources you need. Don’t do anything I wouldn’t do with the reader!

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Tom Mumford

Private Eye for Hire (Not licensed in Quebec)

ATTACHMENT 1 / 1 [proxmark3\_rrg\_other\_fromtom.zip]: Uploaded to Brightspace