**Synthetic Aperture Radar – AWR1642**

Hello,

My name is Cyril and I’m currently working on my final project as an electrical engineer at my university. The goal of this project is to build a synthetic aperture radar (SAR takes raw data and process them to create an image). The devices I’m using are the AWR1642BOOST (to capture the data) and the Raspberry Pi 4 Model B (to process the data and convert it to an image). It’s been few weeks I keep doing my research on that issue that I have, but I couldn’t find an answer to my question:

How can I have access to the raw data from the radar using only the AWR1642? The data should look like vectors. Is there a function? what is the path to send the raw data to the MCPU?

I saw many videos about raw data capture using more than one device such as the DCA10000, etc. In my project, the only AWR1642’s utility is to take the raw data and we’re doing nothing else with that. The data will be process in the RPi and then create an image.

I’m really not familiar with that environment, I’ve been reeding the user guide, I downloaded many software and a lot resources online but I couldn’t find a answer to my question. As a fourth-year student, there’s still a lot of knowledge that I don’t have. If you can help me solving this problem, that would save a big part of the project.

Thank you very much,

Regards,

Cyril

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