

# Procurement Management Plan

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## Summary:

While our team was allocated a PC to use in the research and development lab, it proved insufficient for the purposes of our project as it was stationary and we were only allowed to use one, though we were tasked with connecting two PCs to each other: one acting as a base station and one emulating user equipment. To mitigate this incompatibility, we were able to obtain two laptops with which we could natively boot Ubuntu and use only for the project.

In addition, we were given two Ettus Research USRP B205-mini radio modules and base model WiFi antennae, which proved to be insufficient, which prompted our project mentor Bobby to provide us with an RTL-SDR antennae for the radio module connected to the base station, leading to a slightly improved signal transmission.

## Project Name: Implementation of a 5G Testbed – Research & Development

Hardware Item and Quantity	Description/Purpose	Assigned to
HP Elitebook 840 G5 Notebook PC i5 (2)	To natively boot Ubuntu and run srsRAN which allows the use of software-defined radios to emulate an LTE network	Kat Milicevic
Ettus Research USRP B205-mini radio module (2)	To allow transmission and reception of LTE signals between the simulated base station and user equipment	AUT
RTL-SDR with antenna	To boost signal transmission between base station and user equipment	Bobby Yang