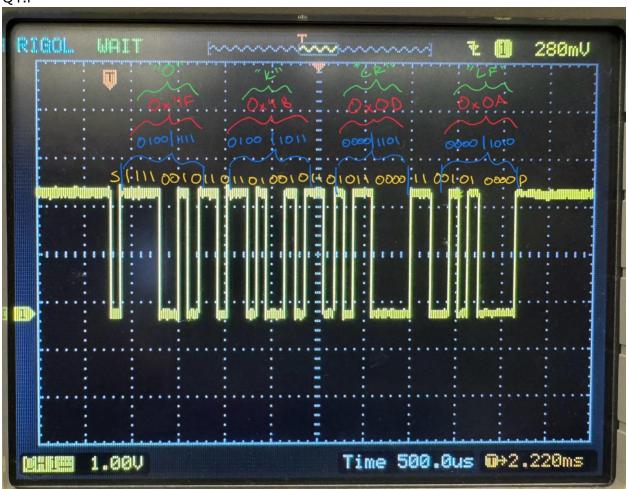
Rick Brophy ECE1188 – Cybersphys Dr. Dickerson

Due: 3/28/24

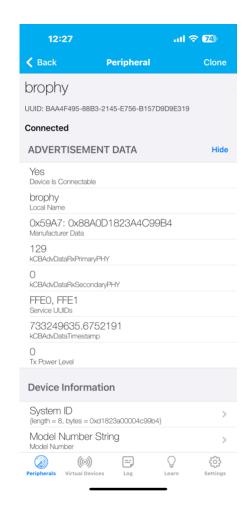
## Lab 4: BLE Communication

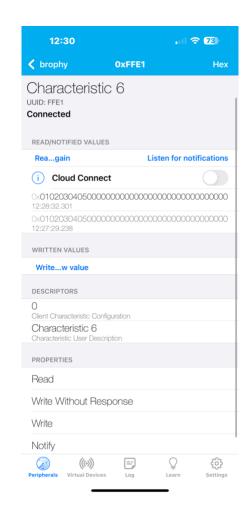
Q1.e When the command "AT" is given, the user is fed a response "OK"

Q1.f



In the terminal, we are typing "O," "K," and enter. This translates to the carriage return and line feed ASCII characters being transmitted as well. I'm also not sure why an extra start bit is transmitted as well. I tried transmitting my initials via BLE and had the same result of an extra start bit between ASCII characters. Binary 0110 is also the ASCII character for acknowledge but don't think this is the case due to having only 3 bits.



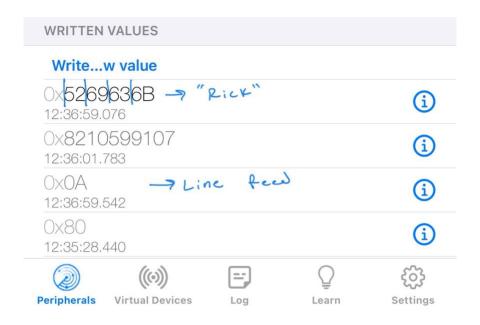


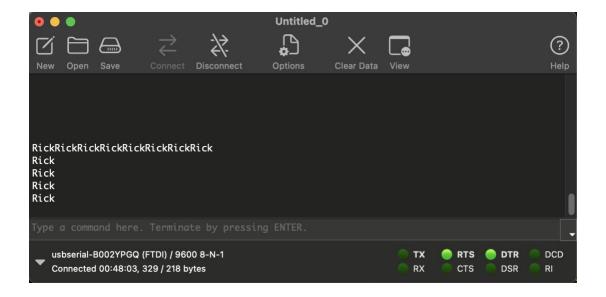
## Q3

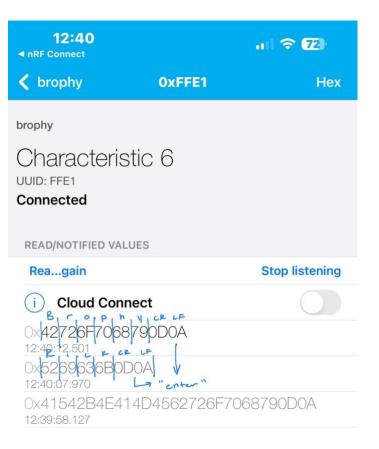
- 1. The module provides 1 service with a UUID of FFE0
- 2. The service has a singular characteristic named "Characteristic 6" with a UUID = FFE1. Characteristic 6 can read, write without response, write, and notify.

## Q4

Me writing my name in hex using the ASCII format table to be sent via BLE (translated to text to display in serial terminal). Can spam commands by reusing them in the queue.







Q6 https://youtu.be/WsXS8MIypUE?si=kqZu\_ml9sp3QkUNC