EE/CprE/SE 491 Bi-WEEKLY REPORT 4

10/11 – 10/25

Group number: sddec21-15

Project title: Open-Source Prototyping of 5G-and-Beyond Wireless Systems

Client &/Advisor: Hongwei Zhang

Team Members/Role:
Haan Zilmer - Report Manager
Bradley Norman - Meeting Facilitator
Anh To - Chief Algorithm Designer
Elias Zougmore - Lead Algorithm Test Engineer

o **Weekly Summary**
- Team continues to research srsRAN and the UCS algorithm. Documentation for srsRAN continues as well. Professor Zhang and his grad students provided us with a UE and an ENB. Bradley and Anh spend time downloading the srsRAN platform onto these PCs and do set up.

o **Past week accomplishments**
- Group continues work on researching the algorithm, the code base, and documentation write up. We also started working with the physical SDR.

o **Pending issues**
- unsure of where to implement algorithm
- unknown parameters for the algorithm
- not sure how to implement test using srsRAN on the SDRs

o   **Individual contributions**

NAME	Individual Contributions	Hours Worked	HOURS cumulative
Haan	srsRAN documentation writeup	6	21
Bradely	SDR setup	7	22
Anh	SDR setup	6	22
Elias	Algorithm write up	6	22

o   **Plans for the upcoming week**
- Haan: continue srsRAN documentation writeup
- Bradely: test links and link reliability between software defined radios
- Anh: finish SDR setup
- Elias: Implement algorithm