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## EE/CprE/SE 491 WEEKLY REPORT 5

10/26 - 11/8

**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

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- o **Weekly Summary** - installed iperf and ran traces between sdr's. completed connecting between sdr processes. verified communication and packet delivery between sdr's.  
*Went through the whole code in Github to find out the parameters needed it for the algorithm*
  - o **Past week accomplishments** - 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 running ue and enb traces.
  - o **Pending issues**
    - o unsure of where to implement algorithm
    - o unknown parameters for the algorithm
    - o not sure how to implement test using srsRAN on the SDRs

o **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours Worked</u></b>	<b><u>HOURS cumulative</u></b>
Haan		6	27
Elias	Algorithm write up	6	28
Anh	SDR setup	6	28
Bradley Norman	SDR traces and iperf simulations	6	28

o **Plans for the upcoming week**

- o Haan: continue srsRAN documentation writeup
- o Bradely: test links and link reliability between software defined radios
- o Anh: test links and link reliability between sdr's
- o Elias: Implement algorithm