

William Crampton is an undergraduate student at the University of Nevada - Reno, and is currently in the last year of his Bachelor's degrees in Electrical Engineering and Computer Science Engineering. After he graduates this coming spring semester, he intends to stay at UNR and obtain a Master's degree in Electrical Engineering, after which he would like to move onto a Ph.D. program. His main goal is to achieve a career in researching and designing communications systems.

His research topic is studying the effects of graphene field plates on the electric field and thermal distribution of a Gallium Nitride High Electron Mobility Transistor (GaN HEMT) using mathematical models. This research could be applied to develop and optimize a more durable transistor for space communications applications.