



Topic: Hostile Radiation Effects Testing

Background Information

Student Name: Keyan Kincade

Academic Major: Applied Mathematics

Institution: USNA

Graduation Year: 2021

Location of Internship: Sandia National Laboratories/NM

Name of Advisor: Rodney Keith

Description of Research Results

Participated in radiation effects testing in support of neutron generator R&D at the Annular Core Research Reactor. Involved in meetings on future neutron generator applications. Attended nuclear deterrent (ND) related courses and tours concerning the design and function of modern nuclear weapons. Participated in Sandia-sponsored online wargaming exercises (SIGNAL) focusing on ND strategy and tactics. Attended the Project on Nuclear Issues (PONI) Summer Conference on ND policy and took part in a Naval War College led table-top wargaming exercise emphasizing NC3 vulnerability and cyber weapon use with conference participants. Investigating synthetic aperture radar algorithm design for senior project.

Internship Experience

The work I did this summer served mostly to enhance my professional growth. Being around for the development of a test, the test itself, and the discussions following the test, going over the results gave me a new perspective on how work is done. It also highlighted the importance of having a diverse team that can look at problems from different perspectives, because sometimes issues arise that require a creative solution to overcome. Being at Sandia also enhanced my understanding of how different agencies work together and support each other to accomplish the mission of homeland security.

Internship Photo

