



*Scan Eagle Unmanned Aerial Vehicle*

- Scan Eagle is currently in use by the US Navy
- Its only form of communicating is through the use of Radio Frequencies (RF)
- RF is susceptible to jamming
- Develop an alternate means of communication for the the Scan Eagle that does not use RF

- Identify a Free Space Optic sensor that meets the Scan Eagle weight and power constraints
- Integrate the identified Free Space Optic sensor on board the Scan Eagle platform
- Lab test the Free Space Optic sensor on board the Scan Eagle
- Conduct flight testing with the Free Space Optic sensor on board the Scan Eagle

- Research will have an immediate operational impact for the US Navy
- This capability is a known requirement for Naval Special Warfare
- This research provides students with relevant and unique advanced education and research in accordance with NPS mission statement
- Research provides a source for unmanned systems employment concepts for operations as per the specific CRUSER Goals