**International Space Systems**

**ISS: Michael Forney**

(U) CFSCC/SIFT

(U) N/A

(U) PWW Reachback

(U) N/A

(U) CSpOC

(U) N/A

(U) Counterspace Modeling

(U) N/A

(U) Support to SMC/SP

(U) N/A

(U) International Partnerships

(U) N/A

(U) NASA Civil Space Campaign

(U) N/A

(U) Python Code Development

(U) N/A

(U) Research and Analysis

* (U) *PWW* Researched innovative technology in artificial intelligence for space systems to facilitate the effort to continue building aerospace’s collective understanding in analysis with data science, machine learning and artificial intelligence. (Argo) 8500-01
* (U) *PWW* Prepared slides on artificial intelligence for space systems for December SLIC delivery along with bio. (Argo) 8500-01
* (U) *PWW* Conducted gap analysis of existing relevant tools in natural language processing relevant to the Project Treasure Island effort (Argo) 8269-13
* (U) *PWW* Performed high-level analysis of methods for implementing various concepts proposed as deliverables during working group meetings for Project Treasure Island. This analysis included the descriptions of the relevant software libraries and packages for in house script building, pseudocode mock-ups, UI block diagrams, and descriptions of natural language processing techniques for various feature design options of the application. (Argo) 8269-13
* (U) *PWW* Maintained commitment to review articles in space news for the purpose of achieving sufficient situational awareness and for exploring possible research topics for upcoming intel summary. (Argo) 8500-01
* (U) *PWW* Developed familiarity with NEO4j graph databases which includes reading the literature on graph database design principals, developing understanding of the architecture of graph databases in NEO4j, practicing cypher query language, researching algorithms and common practices for performing network analysis, and researching versioning concepts. (Argo) 8500-10, 8500-01
* (U) *PWW* Developed familiarity with the Digital Treat Model ontology and the existing files used to build the current graph database in NEO4j (Argo) 8500-10
* (U) *PWW* participated in Engagement Team meeting. (Argo) 8500-01
* (U) *PWW* Collaborated on research effort into GPU’s for improving Aerospace capabilities (Argo) 8500-12