A logo with a hand pointing at a network

Description automatically generated

**Cybersecurity Capstone Coversheet**

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**Summary of the Project**

The project involves creating a comprehensive presentation on IronSky, a geospatial and open-source intelligence company that delivers imagery with global rapid analytics and high-frequency monitoring of the most critical and strategic locations, economic assets, and events. Additionally, the project will cover the definitions of Geospatial Intelligence (GEOINT) and Open-Source Intelligence (OSINT), the contribution of these intelligence methods to specific events (such as the current Israel-Hamas war), compliance with regulations, an illustration of GEOINT analysis and supply chain OSINT, as well as an in-house developed GPS tool for finding photo locations.

**Project Deliverables**

1. Project’s slide deck – to be presented in class.
2. Slide deck transcripts – a concise explanation accompanying each slide, intended for personal reference and the convenience of the professor.
3. Project proposal and plan – a PowerPoint presentation that was presented in class during the semester, with modifications made as per the professor's request.
4. CapstoneProject.py file – source code of the Photo GPS Locator Tool (python).
5. Encrypted file – hashed\_pw.pkl
6. README.md – instructions on how to install packages.
7. Requirements file – required packages.
8. IronSky logo file.

**Planned Deliverables: Achieved**

* Establishing a GEOINT-OSINT company – name, logo, services, team.
* Research on governance and compliance.
* Illustration of GEOINT and OSINT capabilities.
* Programming experience using phyton – Photo GPS Locator Tool.

**Planned Deliverables: Not Met**

* Encryption code – I invested a substantial amount of time writing an encryption code for the project. However, encrypting the locations of the photos was not relevant since the photos appear on a map.

**Lessons Learned**

* Know your area of expertise – when considering the project topic, I initially invested a lot of research into drone programming, even though it is a complex field. This proved to be time-consuming. Eventually, I chose a topic within my familiar area (OSINT), which remained challenging as I had to program and explore GEOINT.
* Plan ahead better – as mentioned above, I spent a significant amount of time writing an encryption code, only to realize it was unnecessary. This proved to be time-consuming.