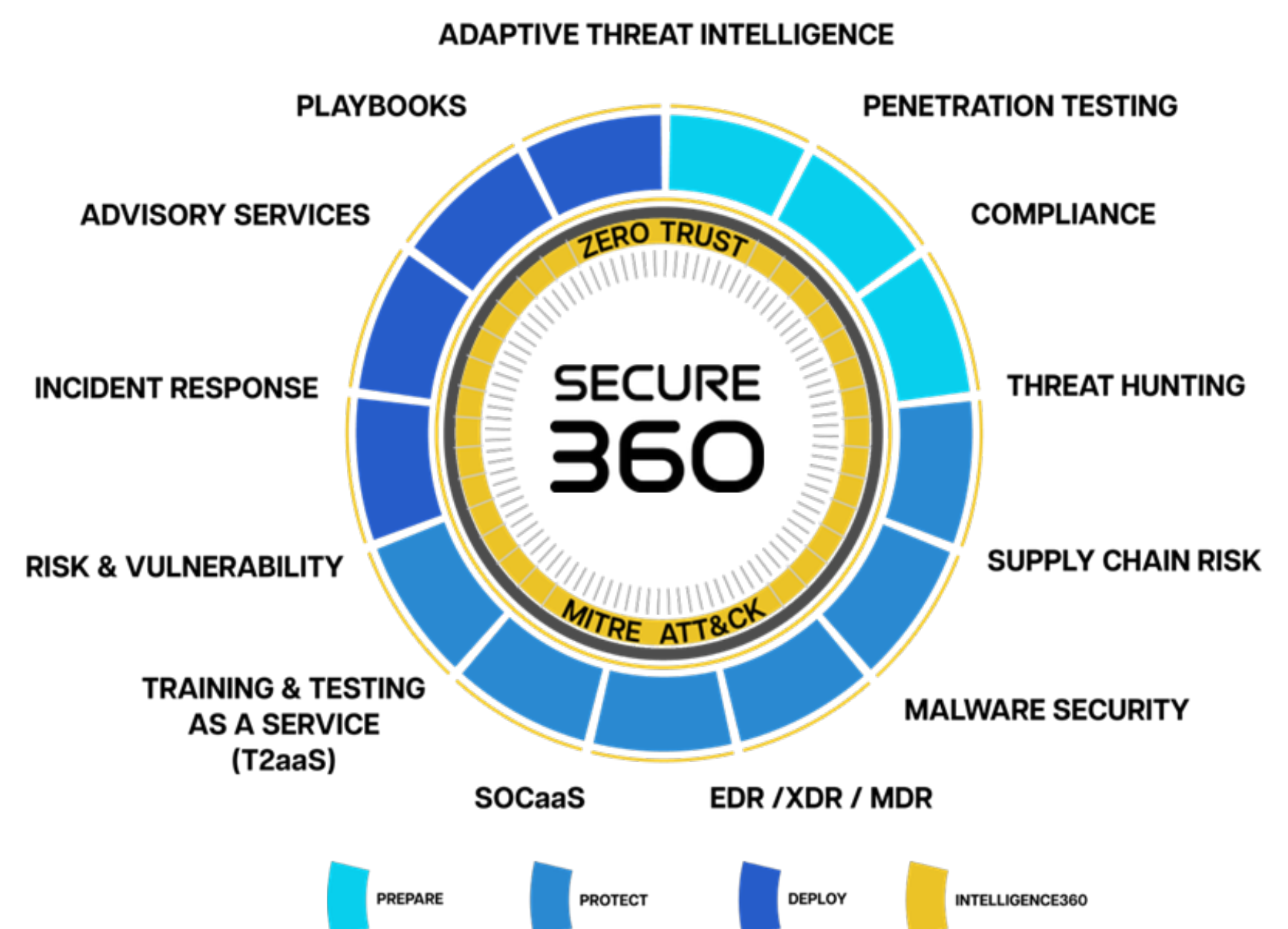


AI Integration into Secure360 Platform

Project Description:

Camelot Secure, a subsidiary of DigiFlight, is committed to creating a comprehensive cybersecurity solution through the Secure360 platform, which covers detection, assessment, analysis, remediation, and adaptive threat intelligence. **We will be focusing on Myrddin, the company's cyberwizard. This project will explore how artificial intelligence can be integrated into the Secure360 platform** through Camelot's strategic partnership with IBM Watsonx. By leveraging AI, Myrddin will strengthen Secure360's ability to detect threats, identify attack patterns using frameworks such as MITRE ATT&CK, and recommend effective countermeasures based on past incidents.



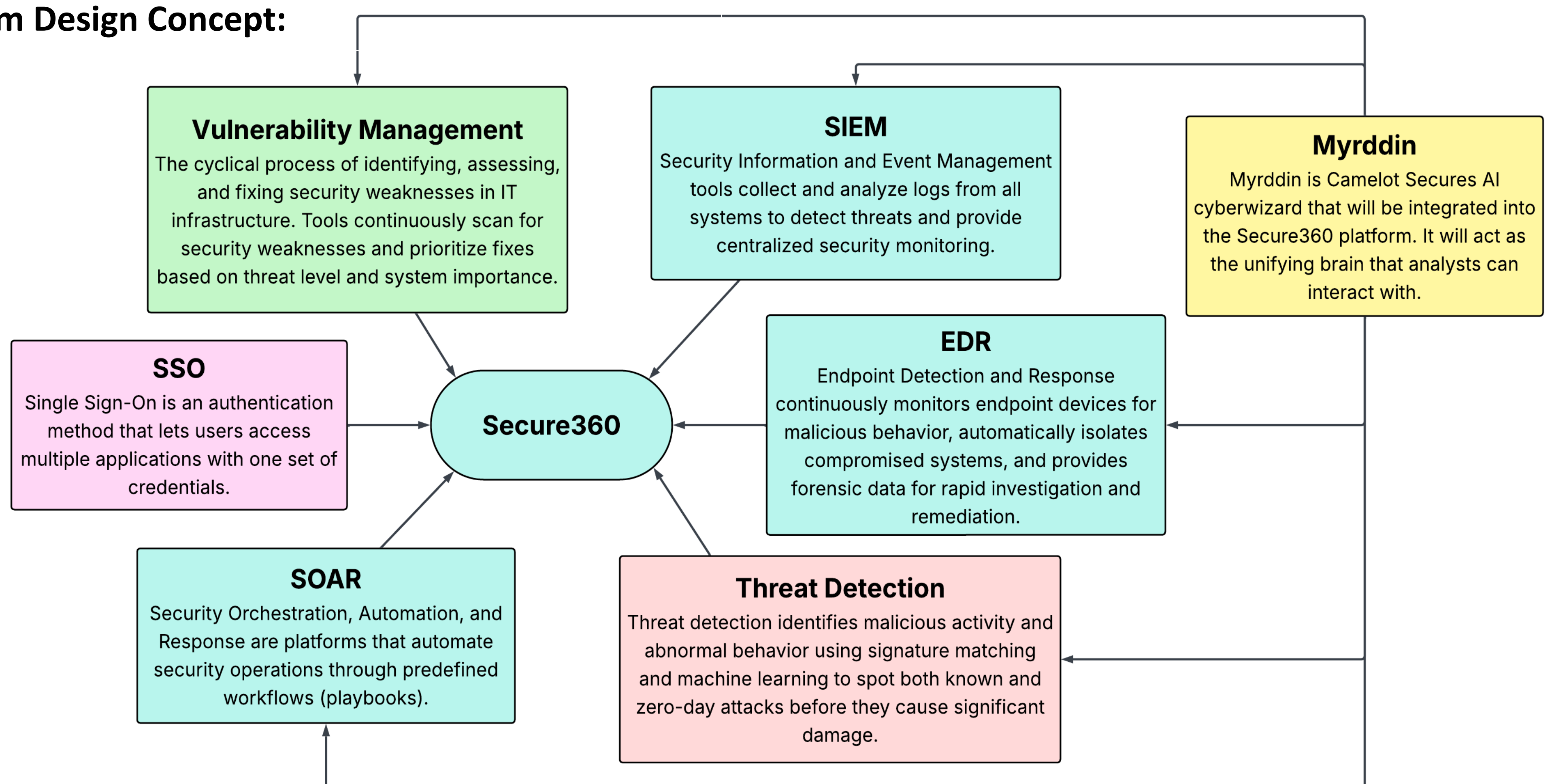
Background & The value of AI in Secure360:

Secure360 is a unified cybersecurity platform that provides assessment, remediation, and proactive threat intelligence for adaptive, comprehensive protection against current and emerging cyber threats. Secure360 ties together multiple security tools such as SIEM, SOAR, Vulnerability Management, EDR, and Threat Detection. **Even with excellent monitoring and data collection, analysts face volume and complexity in cyber threats. AI will remediate these burdens by being the unifying 'brain' that analysts can refer to an interact with.** The AI can sift through and analyze data much faster than a human could, recognize attack patterns based on past incidents, and provide prioritized recommendations.

AI Relevance in Mechanical Engineering:

As we advance into a new age of technology, it is crucial for mechanical engineers to have a background in artificial intelligence and understand its capabilities. Mechanical engineering is evolving, and it is no longer confined to physical systems alone. **Interactions with digital platforms used for data collection, cybersecurity, and other intelligent systems powered by AI is the new normal when designing a mechanical system,** and it is extremely beneficial to understand how these components will communicate with each other. The future of this physical and digital infrastructure lies in the hands of AI, and the engineering industry knows it must recruit engineers well versed in this field.

System Design Concept:



Semester Deliverables:

- Develop a working knowledge of Secure360's system architecture, studying how applications communicate, and determining how Myrddin will integrate with the environment.
- Deliver preliminary design concepts and show early calculations and simulations demonstrating our design's feasibility and effectiveness.
- Create a roadmap showing how, where and what Myrddin AI will be placed within the Secure360 platform.



Faculty Mentor: Dr. Jean-Daniel Medjo



Jayden Okorougo



Alexander Romanofsky



Daniel Stich