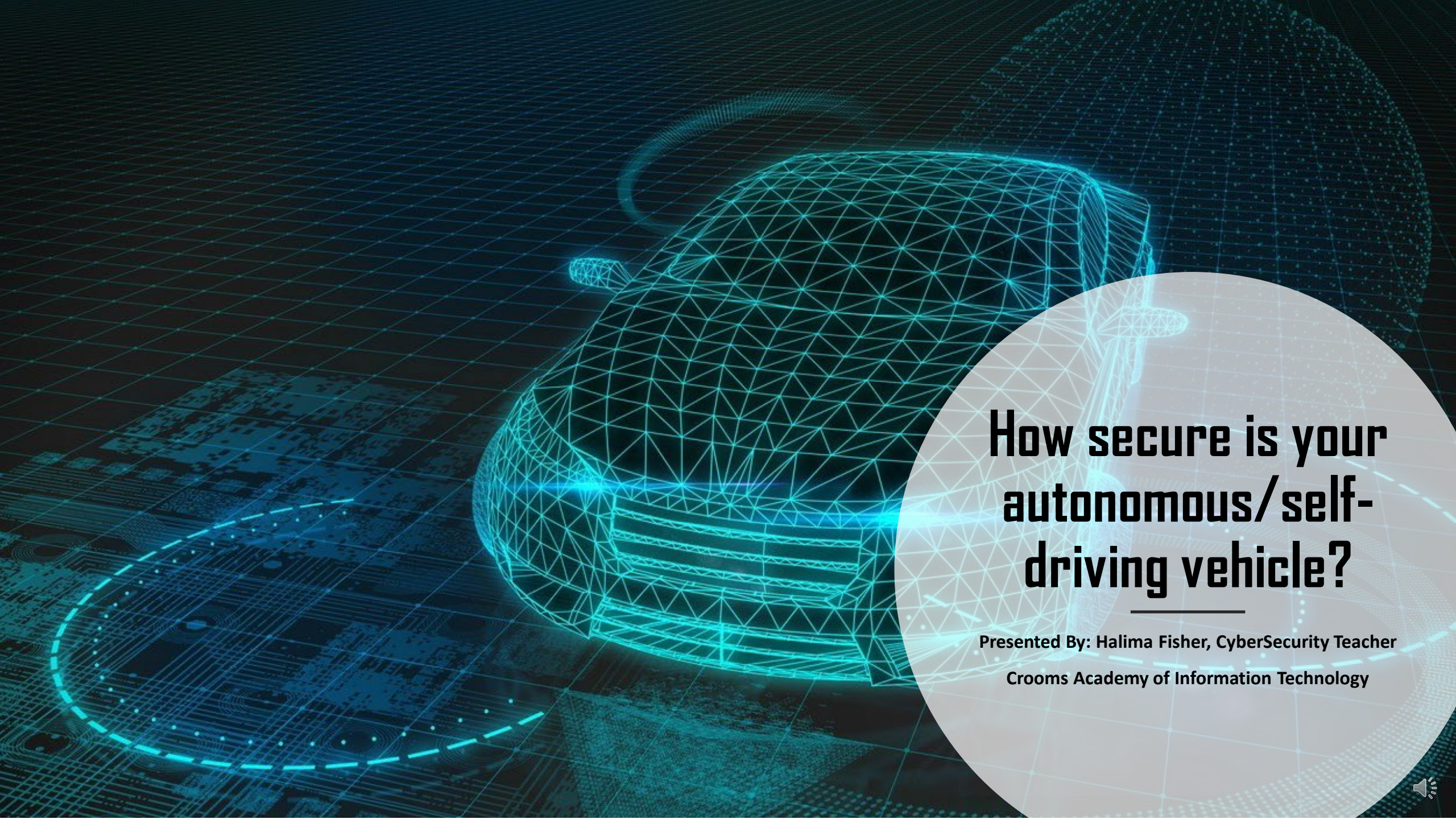


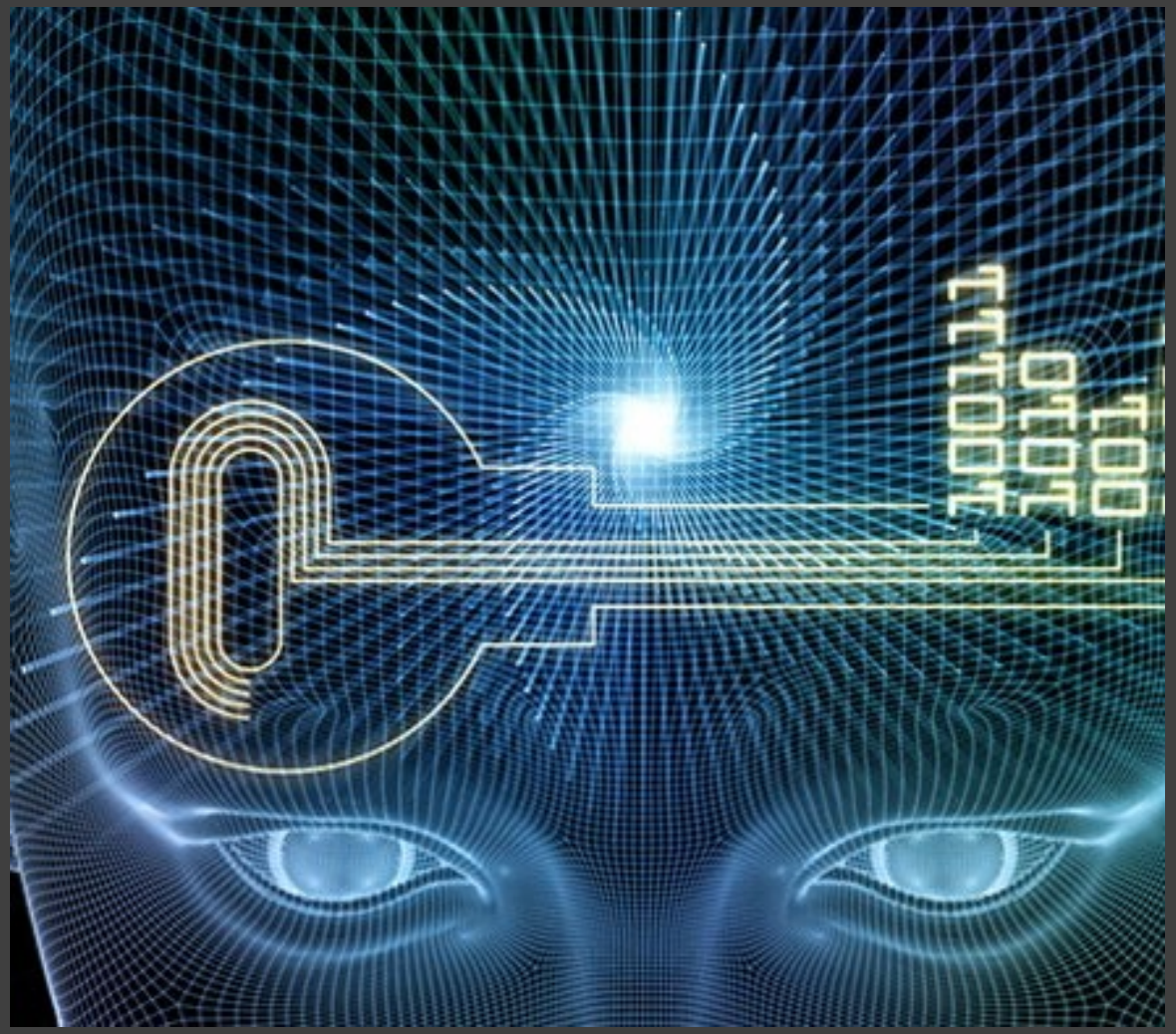
How secure is your autonomous/self-driving vehicle?

Presented By: Halima Fisher, CyberSecurity Teacher

Crooms Academy of Information Technology

Curriculum Integration Goal

- CyberSecurity students will be able to identify the significance of learning and understanding Computer Vision and Artificial Intelligence for Vehicle CyberSecurity.





Computer Vision & CyberSecurity Integrated Lessons

Lesson 1: Learn the History of Autonomous Vehicles.
Lesson 2: Introduction to Computer Vision & Object Detection
Lesson 3: Understanding Neural Networks & Machine Learning
Lesson 4: Understanding different types of Car Sensors
Lesson 5: Utilizing EV3 Lego Mindstorms, explore autonomous vehicles.
Lesson 6: Identifying vulnerabilities in autonomous vehicles
Lesson 7: Research Vehicle CyberSecurity & Auto-ISAC
Lesson 8: Create a brochure: "How secure is your Autonomous Vehicle?

Exploratory Learning:

- Research UCF's work in Computer Vision
- Explore other areas of Computer Vision
- Fieldtrip to UCF



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