



NAECON POST CONFERENCE ZOOM PRESENTATION

3D Virtual DLG Technical Session: Artificial Intelligence and Cybersecurity

Dr. Rob Williams, Discovery Lab Global

Thursday August 31, 2023 from 2:00 PM – 4:00 PM EST

Join Zoom Meeting:

<https://zoom.us/j/99569112209?pwd=cIFleGJNZUhCbHAvYlZlam5sQjUyZz09>

Students in the Discovery Lab Global (DLG) summer program will conduct a virtual technical session of their Artificial Intelligence (AI) and Cybersecurity summer projects from inside of DLG's 3D virtual campus via Zoom. This 2-hour session will be presented in two parts: (1) Generative AI - Cybersecurity and (2) Deep Learning AI. We will include a technical presentation on ChatGPT and how it was used for both Cybersecurity and AI projects inworld. A special section on how ChatGPT was used to generate requirements and planning documents will also be included. Attendees will see examples of how DLG's unique avatar and team-based inworld approach using ChatGPT is able to significantly amplify and accelerate the learning. A no-cost Dept of Labor funded CompTIA Security+ certification training "bootcamp" will be offered to interested attendees.

Please address any questions to:

Dr. Rob Williams at: rob.williams@discoverylabglobal.com

(detailed agenda can be found on the reverse page)

AGENDA

2:00 PM	Welcome and Overview – Dr. Rob Williams
2:06 PM – 2:20 PM	Generative AI – ChatGPT Technical Description – Dr. Rob Williams <i>ChatGPT was a disruptive game changer for DLG program this summer!</i>
2:20 PM – 2:34 PM	Generative AI – ChatGPT for Cybersecurity – Eli (Team Fox Fire) <i>Students prototyped a ChatGPT avatar in-world to act as a research assistant for AI and a lab assistant for Cybersecurity in virtual world.</i>
2:34 PM – 2:48 PM	Cybersecurity – ChatGPT for Cybersecurity – Miguel (Team Quiet Thunder) <i>This program prepares students to take the CompTIA Security+ and ChatGPT was used to generate study material and practice exams and material for cybersecurity Capture The Flag competitions.</i>
2:48 PM – 3:00 PM	Presenters answer Frequently Asked Questions (FAQ) - Led by Dr. Williams
3:00 PM – 3:14 PM	Deep Learning AI – Hana (Team Quantum Star) <i>Students developed an AI program that teaches itself how to play a video game and win without human assistance.</i>
3:14 PM – 3:28 PM	Prompt Engineering for AI Deep Learning – Junchen (Team Quantum Surge) <i>There are news reports of companies offering salaries of \$200K to \$300K for Prompt Engineers ... Junchen will describe what Prompt Engineering is and how it can significantly improve the results that ChatGPT generates.</i>
3:28 PM – 3:42 PM	Requirements Document for AI Deep Learning using ChatGPT – Matthew (Team Quantum Blue) <i>ChatGPT can be used to generate hundreds of pages of requirement documents and planning documents and even technical reports with careful vetting. Matthew will walk through the steps of creating a Requirements Document for an AI project using ChatGPT. This exercise will cap the page count to 25 pages for demonstration purposes, although the students used ChatGPT to generate a 500 page Technical Document consisting of several 100-page Documents (TDoD) covering different aspects of their projects.</i>
3:42 PM – 3:54 PM	Presenters answer Frequently Asked Questions (FAQ) - Led by Dr. Williams
3:54 PM – 4:00 PM	Summarizing Wrap Up – Dr. Williams (he will stick around on Zoom to answer any questions)