



Secure Vehicle and Industrial Networking

Spring 2023 | SYSE549
5:15 - 8:00 p.m. Wednesday
Dr. Jeremy Daily

Course prerequisites: CS 163 or CS164 (Intro to Programming) or equivalent

Dr. Jeremy Daily researches heavy vehicle cybersecurity and forensics. He co-founded the CyberTruck Challenge to introduce students to the new and rapidly growing field of heavy vehicle cybersecurity.

Learn about cybersecurity vulnerabilities within communications systems.

Theoretical and practical applications of secure communications in automotive and industrial networking systems. This course will explore the many advances in the internet of things (IOT) and the supporting infrastructure with a particular focus on cybersecurity.

Students completing this course will be able to:

- Compare networking technologies in industrial and automotive settings
- Carry out programming exercises to demonstrate examples of networking
- Determine security vulnerabilities of existing communication systems

Topics covered in this course:

- Principles of Networking
- Ethernet Communications
- Tools for Network Analysis
- Transport Layer Security
- Controller Area Networks



**Interested in
the future of
cybersecurity?**

Questions?

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**We recommend registering for Spring
2023 classes by January 10.**



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