Autonomous System Security

## Fostering Strong System Security

Autonomous Vehicle
Developed by CSSTC @ ST Engineering

Cybersecurity for autonomous systems is of extreme importance, especially when the safety of humans is involved.

At ST Engineering, we carry out targeted cyber-attacks on autonomous systems to assess their impacts and uncover system weaknesses. We also design and develop novel technologies that can better protect, detect and mitigate emerging threats not just for autonomous systems. We cover OT networks, as well as critical infrastructures.

SENSORS

Sensors Data

Control Signals

AUTONOMOUS DRIVING SYSTEM
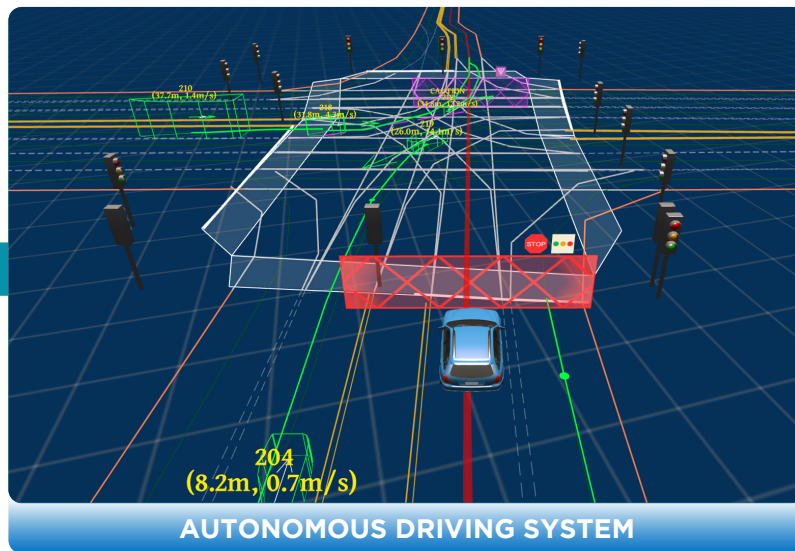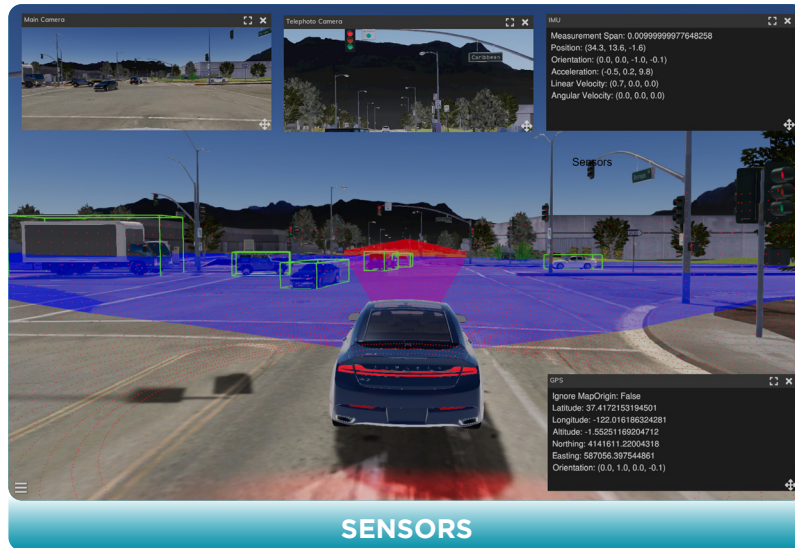
Cyber-Attack Demonstrations

CAN BUS INJECTION ATTACK

TCP MAN-IN-THE-MIDDLE ATTACK

How to Secure Autonomous Systems

Ways to secure autonomous systems, OT networks, and critical infrastructures can range from layered defense approaches such as system hardening, data encryption, white-listing, to proactive approaches such as continuous endpoint detection & response, continuous risk assessment & mitigations, etc.

Layered Defence Approaches

Proactive Approaches

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