ECE MDE Expo Fall 2024

Wednesday, 20 November 2024 - Wednesday, 20 November 2024

The Inn at Virginia Tech

Scientific Programme

Track 1 - Latham A

Interactive Digital Twin for Dynamic Building Management

Blue Sentinel: Tactical Decision Aid

Bluetooth Asset Tracker

Sub-1-GHz Direction Finder

Project LLM: An Offline Chatbot Memory Solution

Track 2 - Duck Pond

Framework for a Wide Field of Regard Scanning LiDAR

Infrared Friend-or-Foe Identification Sensor Design and Vision System for Lightweight UAV

Exploiting Bluetooth Vulnerabilities in the Nordic Thingy

Bluetooth Low Energy (BLE) Based Mesh Network

Network Portscan Display Panel Challenge

Track 3 - Smithfield

Robotic Motion Planning

Sensor Fusion for Autonomous Navigation

Wooden Pallet Life-Cycle Tracking

Swarm Robots for Disaster Response

Optic Sensor and Vision System for Lightweight UAV

Track 4 - Solitude

Autonomous Water Monitoring System for Remote Creek Management

Fabricating Microneedle-Based Medical Delivery Patches

Portable Transmitter Location System

Inverse Design of Passive RF Components