ADAS Training Pathways

Virtual Worlds
- Designing 3D Scenes with RoadRunner
- MATLAB Fundamentals
- Deep Learning with MATLAB
- Automated Driving with MATLAB

Perception
- MATLAB Fundamentals
- Image Processing with MATLAB
- Computer Vision with MATLAB
- Automated Driving with MATLAB

Controls
- Simulink Fundamentals
- Simulink Model Management and Architecture
- Control System Design with MATLAB and Simulink
- Automated Driving with MATLAB

Implementation
- Simulink Fundamentals
- Embedded Coder for Production Code Generation
- MATLAB to C with MATLAB
- Polyspace for C/C++ Code Verification

(2) = Private offering only
Functional Safety Training Pathways

MATLAB Onramp and Simulink Onramp (1)

Model-Based Design for ISO 26262 (2)

System Architect
- Code Generation for Classic AUTOSAR Software Components
- Simulink Model Management and Architecture
- System Composer for Architecture Modeling
- Real-Time Testing with Simulink Real-Time and Speedgoat Hardware

Algorithm Designer
- Stateflow for Automotive Applications
- Code Generation for Classic AUTOSAR Software Components
- Simulink Model Management and Architecture
- Integrating External C Code with Simulink

Software Integrator
- Embedded Coder for Production Code Generation
- Code Generation for Classic AUTOSAR Software Components
- Polyspace for C/C++ Code Verification
- Integrating External C Code with Simulink

Test Engineer
- Simulation-Based Testing with Simulink
- Design Verification with Simulink
- Polyspace for C/C++ Code Verification
- Integrating External C Code with Simulink

Hardware Engineer
- Simulink Real-Time with HDL Coder (2)
- Design Verification with Simulink
- Polyspace for C/C++ Code Verification
- Integrating External C Code with Simulink

(1) = Self-paced    (2) = Private offering only
Electrification Training Pathways

**System Architect**
- MATLAB Onramp (1) and Simulink Fundamentals
- System Composer for Architecture Modeling
- Simulink Model Management and Architecture
- Power Systems Engineering with Simscape
- Battery Modeling and Algorithm Development with Simulink
- Real-Time Testing with Simulink Real-Time and Speedgoat Hardware

**Battery Designer**
- MATLAB Onramp (1) and Simulink Fundamentals
- Stateflow for Logic Driven System Modeling
- Simulink Model Management and Architecture
- Power Electronics Control Design with Simulink and Simscape
- Modeling Electrical Power Systems with Simscape
- Real-Time Testing with Simulink Real-Time and Speedgoat Hardware

**Power Systems Engineer**
- MATLAB Onramp (1) and Simulink Fundamentals
- Simulink Model Management and Architecture
- Modeling Physical Systems with Simscape
- Power Electronics Control Design with Simulink and Simscape
- Modeling Electrical Power Systems with Simscape
- Real-Time Testing with Simulink Real-Time and Speedgoat Hardware

**Test Engineer**
- MATLAB Onramp (1) and Simulink Fundamentals
- Simulation-Based Testing with Simulink
- Simulink Model Management and Architecture
- Polyspace for C/C++ Code Verification
- Real-Time Testing with Simulink Real-Time and Speedgoat Hardware

**Software Integrator**
- MATLAB Onramp (1) and Simulink Fundamentals
- Embedded Coder for Production Code Generation
- Integrating C Code with Simulink
- Polyspace for C/C++ Code Verification
- MATLAB to C with MATLAB Coder

**Data Analyst**
- MATLAB Fundamentals
- Signal Preprocessing and Feature Extraction for Data Analytics with MATLAB
- Predictive Maintenance with MATLAB
- Polyspace for C/C++ Code Verification
- MATLAB to C with MATLAB Coder

(1) = Self-paced