

**שם הקורס:****Altium Advanced**

משך ההדרכה: 17 שעות

Simulation

Simulation introduction in Altium	Get to know how simulations in Altium works and what dose it takes to preform them
Spice/PSpice Simulations	Spice/PSpice/LTSpice simulations
Power Analyzer by KeySight	Sophisticated Layout simulation that allows you to accurately measure, log and analyze electrical power and power-quality parameters in AC or DC systems (Voltage drops and Current Density)
Signal Analyzer by KeySight	Brings signal-integrity (SI) analysis capabilities into your PCB design environment: Impedance, delay, loss analysis, Heatmap visualization on PCB layout, Constraint checks
Simulation Reports	Master the reporting options available in all Altium Simulations

**Altium MCAD
CoDesigner**

ECAD-MCAD Collaboration Intro	Introduction to the tool that connects the two disciplines
Create the Environment	Add users, install Add ins and all the structure this collaboration needs to work
Interface options and tools	Get to know all the options and tools available in this feature
Rigid-Flex Advanced option	Push and Pull rigid-flex PCB designs
History and Revisions	Check the previous push and pull that are stored in the version control
Create PCB from MCAD	Create layout from sketch
Pull PCB to MCAD	Create Assembly from Altium PCB
Harness Pull to MCAD	Auto Create Harness that designed in Altium in the MCAD tool
MCAD CoDesigner Options	Explore the options available in the Add in via MCAD tool

**Altium Harness
Design**

משך ההדרכה: 5 שעות

Getting started with Harness Environment	Structure of a Harness Design Project
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QuickNav - Harness Design Objects	Get familiar with all Altium Harness Objects that allows to create Cables and Harness
Defining the Wiring Diagram	Master the Wiring Schematics of Cables and Harness
Creating the Layout Drawing	Master the Harness Layout and the way the cables looks and behave
Validating the Harness Design	Electrical Rule Check and compile the Harness Project, validate it and check it's connectivity
Creating a Manufacturing Drawing	Full scale document for manufacturing with balloons, measurements and diagrams like: wiring list, BOM, component connection, wire colors, and more
Creating a Harness Wiring Component	Create Harness cables and wires for quick use
Creating Harness Template Documents	Harness Template creation with sizes, Title Block, and units

Altium Multi-Board Design

System Design	Capturing the Logical System Design
Multi-board Assembly	Creating the Physical Multi-board Assembly
System Manufacturing Drawing	Creating a Manufacturing Drawing
Connect to Harness	Connect Harness project to Multi Board Project
Import System to Harness	Create the Logic connectivity and import it to Harness project to create full scale Cable