**Date:** Dec 6, 2023

**Title:**  Basic Radar Design

A screenshot of a computer

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**Summary:**

This workshop introduces Radar Design with MATLAB at the basic level. Using our interactive Apps we will show you how to speed up your design efforts and perform trade-off analysis leading to the desired specifications goal.

You will learn how to:

* Generate a radar waveform using our Pulse Waveform Analyzer App.
* Design a rectangular array using our Sensor Array Analyzer App
* Validate coverage using our Radar Designer App.

Using the results obtained from above steps, you will formulate the complete example and run detection for two targets.

**Agenda**

* Scenario Overview
* Block Diagram
* Waveform Design (Exercise 1)
* Array Design (Exercise 2)
* Radar Designer App (Exercise 3)
* Simulation & Detection (Exercise 4)