# Radar Detection System

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# OBJECTIVE

Smart radar systems use advanced algorithms and signal processing to detect and track objects in real-time. They can be used for a variety of applications, such as detecting and avoiding obstacles in autonomous vehicles, monitoring traffic for safety and efficiency, and detecting and tracking weather patterns. Smart radar systems use a combination of microwave and radio waves to detect and track objects. Smart radar systems are becoming increasingly popular in a variety of industries, including automotive, aerospace, and defense.

# Components

* Arduino Uno
* Servo Motor
* Ultra Sonic Sensor
* Bread Board
* Male to Male cables
* Male to Female cables

# Working

Smart radar systems work by emitting a signal, which is reflected off of objects in the environment and detected by a receiver. The signal is then sent to a signal processor, which uses advanced algorithms to extract information about the objects in the environment. This information is used to generate a map of the environment, which can be used for a variety of applications. Smart radar systems are highly accurate and can detect objects at long ranges and in adverse weather conditions, making them ideal for outdoor use.





