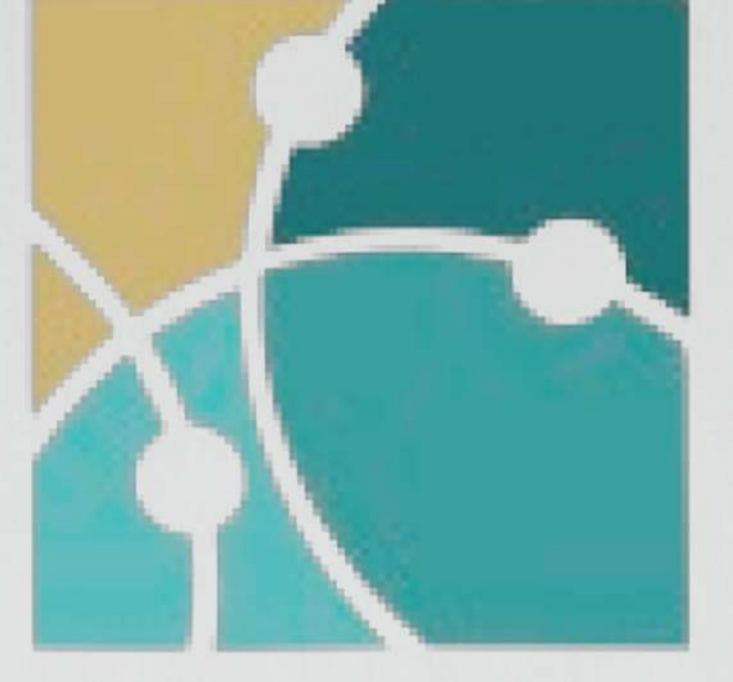




جامعة أم القرى
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كلية الحاسب الآلي
ونظم المعلومات

College of Computer and Information Systems



Drone Detection

Introduction

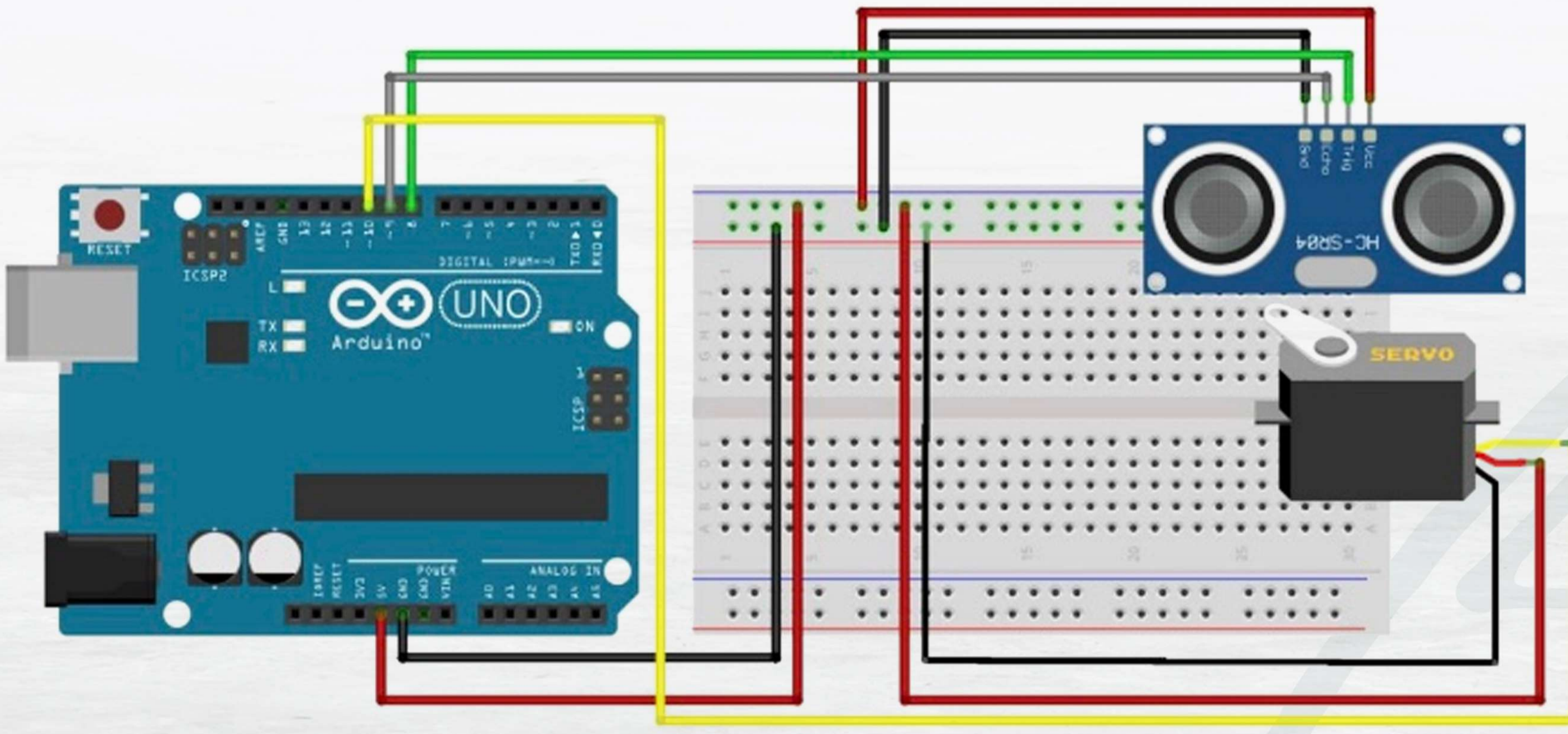
Radar is information provider of an objects that cannot reached directly. This information is related to distance, depth, direction speed, etc. The principle of operation of radars is unique; sending and receiving waves through a specific medium that allows such waves to pass through at a low level of attenuation.

Objective

This Arduino radar project aims to achieve a radar system prototype based on an Arduino board that detects stationary and moving objects and tracking multiple targets simultaneously.

Methodology

We using Couple of things, the most important one is Arduino Uno its based on a simple microcontroller board used as a controller also Ultrasonic sensor HC-SR04, evaluating the time required for sending and receiving the ultrasonic wave several information related to the object or obstacle that causes the reflection of the wave can be measured such as the the distance to the sensor, size, figure. The servo motor if you want to rotate and object at some specific angles or distance which run through servo mechanism. Using Arduino software its derived from the IDE for the processing programming language and the wiring projects, it is designed to introduce programming, Also a Processing software built for visual design communities with the purpose of teaching the fundamentals of computer programming in a visual context.



PROJECT DIAGRAM



THE REPORT

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