Home Autonomous Fire Fighting Robot Using NodeMCU.

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Abstract:-

In the age of technology, the world is slowly turning towards the automated system and self-travelling vehicles, fire fighters are constantly at a risk of losing their life. This advanced firefighting robotic system independently detects and extinguishes fire. Fire spreads rapidly if it is not controlled. In case of a gas leakage there even may be an explosion. So, in order to overcome this issue, our system comes to the rescue. This firefighting robotic system is powered by NodeMCU development board it consists of the HC-SR04 ultra-sonic sensor mounted on a servo motor for obstacles detection and free path navigation, it is also equipped with the fire flame sensor for detecting and approaching fire it also makes use of water tank and spray mechanism for extinguishing the fire. Water is pumped from the main water tank to the water nozzle with the help of 5V pump.

Block Diagram:-