**FIRE FIGHTING**

**BOT**

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***Abstract-*There are many fire accidents taking place every year. Even though there are lot of measures being taken up for Fire accidents, these natural or man-made disasters do occur now and then. In event of fire breakout in order to save people and to put out the fire we are forced to use human resources which is risky. With the advancement of technology especially in the field of robotics it has become easier to replace humans by fire fighting bots. This would improve the efficiency of firefighters and would also help in avoiding the risk to human lives. Keeping the above scenario in mind the project taken by me is Fire Fighting Bot, which will automatically sense fire and put it out. Objective of the bot is to find the flame (flame sensor),extinguish the fire (water pump/fan) ,and it progresses in conjunction with the search for fire to control it and sends a message to the mobile or tablet (Bluetooth module) when it detects fire and all this is controlled with the help of a microcontroller(Arduino Uno). The robot can move on a particular path without being caught in obstacles, and conducts a fire scan as it moves. It evaluates data and performs obstacle detection, flame detection, actuation, informing and extinguishing process.**

**Software requirements of the project-**

**Arduino IDE**