Plan and execution

Setup:

Automated Aim assisted fire fighting bot consist of three parts

* Base tripod
* Camera
* Turret

One the base of the tripod a turret is placed . Camera is attached at the top of the turret which is stationary .

How the turret works?

It will have two axis of motion.First degree of freedom is the rotation perpendicular to z axis.The second degree of motion is the pitching action.The turret has two servo/stepper motors for achieving the two degrees of freedom. A hose is attached to the top of the turret and the flow of water is controlled by a high pressure water pump

A camera placed on the turret which is stationary .The camera is used to identify areas of fires.After the fires are detected the distance between the turret and the fire is calculated and microprocessor develops a trajectory to extinguish the fire .Values of rotation angle ,pitch angle and the water speed values is sent to the turret.