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Robot Proposal

I have decided to go with a helicopter robot. The main purpose of my robot is target finding. I'm planning to use a camera to find a colored target. For example, a red car in a parking lot could be used as a target. The helicopter will also have collision avoidance so that it doesn't fly off and hit a tree or the like. Then the target is found, the coordinates from GPS unit will be transmitted to an LCD base station. The transmission will be done via a RF serial transmitter. The control for the robot will be based on Mavric-IIB microcontroller board. There are two servos and two dc motors will have to be controlled for the flight. One of the motor is for main blade, and another one is for a rotor blade. The rotor blade's speed will be controlled with reference to an accelerometer. The sensor will provide information whether the helicopter is spinning. Also, the speed of the rotor blade is relative to the speed of the main blade. Sonar sensor will be used for object avoidance because of its range. I'm hoping that it will at least hover if not flying around.