INTELLIGENT HEADLIGHT

Aim- Headlight that can adjust its light direction according to the car in front or a car coming so that the driver of that car does not faces any problem.

from where i got this idea - http://www.youtube.com/watch?v=-dvPZ3H1Vm4

components- 1). Web Cemra
2). LED array
3). Glass Screen
4). Arduino

Implementation steps-

Week1- collecting whole information to build it. And assembling components.

Week2- basic design of headlight.

Week3- arraniging of the parts.

Week4- coding for the signal detection.

Week5- coding for the giving command after detection of light by camera.

Week6- testing to the fullest and improvig design.

We will going to first detect the car coming from the front or moving ahead us through its headlight or backlight. And will calculate the speed of the car. Image processing will be done for all that. This will be done through light detection by photosensors (camera) and radar.

Now we got the coordinates of the headlight so we can have approximate position of car.

So now we will adjust our cars headlight by rotating our headlights using rotatory motors according to the postion of car and dim our light in the are

a in which car
will be travelling. The transformations will be don
e through coding.

led array will bright according to the way we want
. arudino is used to convert our codes into signal
s to rotate the motor..