

ADAPTIVE FLASHING CAR BRAKE-LIGHTS USING ARDUINO

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In this project, the idea of the adaptive brake light was reinterpreted using an Arduino Nano (ATMEGA328P) microcontroller. With a transistor as switching unit and an acceleration or GPS sensor, the components are connected in between the braking signal – only one additional power cable needs to be pulled. Any vehicle type can be easily retrofitted in this way without complicated wiring or the need to detect pedal force. The code was programmed using existing Arduino libraries, the cases were 3D printed and the finished modules were tested in practice. The total price of required components does not exceed \$15.