

# Licensing opportunity

## Warning system in motorcycles for emergency braking and monitoring following drivers

### Field of use

Motorcycling, traffic

### Current state of technology

Prototype

### Patent status

Patent pending (filing date:  
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### Publication

in preparation

### Developed by

Faculty of Information Studies in  
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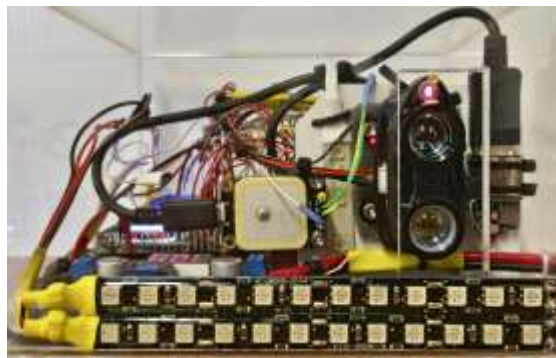
Inventors: Matej Barbo,  
Blaž Rodič

### Reference

P-201800079

### Contact details

TTO FIŠ  
Phone: +386 59 08 20 62  
E-mail: TTO@fis.unm.si



### Background

Motorcycle remains the most risky means of transportation per kilometer. A relatively large proportion of motorcycle accidents represent rear-end collisions. In an emergency, the brake light, considered the most important source of information, does not provide clear information of the motorcyclist's braking intensity to the following driver. On the other hand a motorcyclist is not sufficiently aware of the vehicles approaching from behind and is unable to warn following drivers of a potential rear-end collision.

### Description of the invention

Invention implements accelerometer, GPS and Lidar to analyze motorcycle-driving conditions in real-time. In case of an emergency stop, system alerts following drivers with a dedicated flashing brake light. The system also monitors the speed of the following drivers. If a vehicle is approaching the stationary or slowly moving motorcycle with excessive speed, system warns of the motorcycle's presence with a dedicated flashing brake light.

### Main advantages

The system increases the visibility of the motorcycle in critical situations for following drivers, increasing their available response time and reduces the chance of a collision, while warning the motorcyclist of the danger.