

Case Study >>



Integrated Smart Camera Software Solution

Smart Camera Software Module that doesn't require additional ECU

Business Challenge

In order to follow the current safety requirements as well as a demand in automated and autonomous functionality, modern vehicles acquire more sensors with every generation.

It often results in adding new computational units to the system setup which increases costs. Hence, Smart Camera module is a "must" in a modern safe car.

To keep the price level stable, different ECUs are replaced with a single ECU and corresponding software modules.

Solution

A software module that enables Smart Camera functionality and implements ADAS requirements to the modern car:

- ▶ Vehicle detection
- ▶ Lanes detection and road model reconstruction
- ▶ Different types of lanes detection
- ▶ Vanishing Point, Horizon Level

The solution utilizes Computer Vision technology on a single physical camera. A built-in environmental model allows fusing data from different sources increasing the quality of results.

Business Value

- ▶ Smart Camera functionality that can be integrated with the existing ECU
- ▶ Data fusion with Navigation, Radar
- ▶ Data fusion with V2V, V2I
- ▶ Confidence level estimation
- ▶ Access to both raw data and image stabilization parameters
- ▶ Support of different hardware
- ▶ Integrated with True Augmented Guidance



About Infopulse

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Infopulse provides in-depth expertise in automotive software development that includes navigation, computer vision, augmented reality, connected car, cybersecurity, embedded systems, and other solutions. With our help, customers strengthen their technological capabilities, achieve faster time-to-market, reach a wider talent pool, and gain new competitive edge by embracing innovations.

Contact us:



Aleksey Denysyuk

Head of Automotive Service Line

☎ +380 (44) 585-25-00

✉ a.denysyuk@infopulse.com

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