

Goal of the project:

Software development for a generic central display used in an advanced driver assistance system.

Short description of the project:

The project aims the design and implementation of a platform display which could be fast adapted to support different displays (size/resolution) having enhanced capabilities (24-bit colour depth / White Balancing). The solution is touch screen based having multifunctional interfaces. It also provides some degree of extensibility (other interfaces) and ability to run without additional intelligence (analogue wake up / dimming).



Project implemented by:

Continental Automotive
"Politehnica" University of Timisoara

Implementation period:

June 2012- October 2012

Research centre:

Research Centre for Intelligent Electronic Systems

Main activities:

Training in automotive embedded systems (Renesas V850E2 / Dx4 - JCP2011 microcontroller, OSEK, MISRA C)
Developing a touch screen application using Atmel maXTouch Technology

Results:

Driver implementation, using MISRA C compliant code, for an Atmel maXTouch touchscreen
Modules (dimming, CAN, LVDS) integration

Fields of interest:

Automotive embedded software
Automotive embedded hardware

Financed through/by:

S.C. CONTINENTAL AUTOMOTIVE ROMANIA S.R.L. TIMISOARA

Research team:

Dr. eng. Cătălin-Daniel CĂLEANU, Assoc. Prof.
Dr. eng. Georgiana SIMION, Assist. Prof.

Applicability and transferability of the results:

The project's results have been transferred entirely and now are the property of Continental Automotive.

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