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**A Supporting Letter for the ARTES project: A Tool Environment for the Development of Embedded Systems**

Mecel is a well acknowledged engineering company in the automotive industry. Our focus is on key areas such as engine management and control by means of Ion Sense as well as Multiplexed Vehicle Electronics for vehicle network communication and Mobile Multimedia.

In collaboration with Uppsala University, we have successfully applied the tool UPPAAL in a case study (for research purpose) in 1997 to develop a prototype gear box controller. It turned out that UPPAAL is a very useful tool for the design and analysis of embedded systems.

To keep our market leading position, it is of vital importance for us to cooperate with academia. We want to follow and participate research activities in the further development of this type of software tools like UPPAAL, based on formal methods. In particular we are interested in research proposed in this project, i.e. generating executable code from high-level designs and specifications based on well-developed program libraries provided for different operating systems, and also test generations according to requirement specifications.

We at Mecel, have developed the concepts of BASEMENT for the development of control systems embedded in modern vehicles. We believe that research activities and results of the proposed ARTES project will be invaluable to the future development of BASEMENT. Therefore, we want to participate in research activities in this project as an industrial partner.

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