**Company:** NXP Semiconductors Eindhoven

**Supervisor(s) at company (name + e-mail addresses):**

Gerardo.Daalderop@nxp.com, Joost.Doorn@nxp.com

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**University**

**Supervisor(s) at university (name + e-mail addresses; TU/e will look for suitable supervisors if left blank):**

Embedded sw expertise,

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**Project title (or topic):**

API for Intelligent Traffic Systems and Telematics Applications implemented on a hybrid communication platform

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**Short project description:**

In the roadmap towards zero-accidents vehicles and highly automated driving connectivity will be a key requirement. Vehicles will connect to the surrounding world via multiple communication channels. Currently cellular (LTE-A) and ITS-G5 (802.11p) connectivity are foreseen, in future new releases of LTE (LTE-V and 5G NewRadio) are foreseen as well. On a hybrid communication platform containing LTE, 802.11p, digital radio, WiFi, BLE, NXP wishes to enable applications to access concurrent or best quality of service utilization of multiple communication channels through a single API.

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**Technical assignment:**

See above

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**Business assignment***:

Optional Evolution of roadmaps of zero-accident and highly automated driving enabled through communication

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*This part is only relevant for graduation projects carried out by students of the EIT ICT Labs ([www.ictlabs.eu](http://www.ictlabs.eu)) variant of the Embedded Systems program. In addition to the MSc thesis about the technical aspects of their graduation project, these students need to write a short additional report discussing the business-related aspects of their graduation project. Please fill in this part if you wish your project proposal to be considered for this option.