# Cooperative Research Projects

## "SEAMAL BMS" SEcurely Applied MAchine Learning – Battery Management Systems

The project objective in SEAMAL BMS is the conception and development of a next generation of a universal connectivity module for cost-effective use in smart and safe battery management systems, e.g. to be used in electric vehicles for the optimal use of battery resources and range optimization.
This project is co-financed by the European Regional Development Fund.

- [Link](#)



## "Smart DICE" Smart Dual InterfaCE IC Platform

The project goal in Smart DICE is the conception & development of a secure RFID-based dual-frequency IC platform that combines the advantages of HF and UHF technology and thus enables efficient and cost-effective interaction of users with the Internet of Things.
This project is co-financed by the European Regional Development Fund.

- [Link](#)



**Researchers, engineers and management at NXP Semiconductors Austria do believe in the power of co-creation to master challenges of fast time to market and innovation leadership. We appreciate the complementary know-how of our academic and industrial partners in collaborative R&D projects and the financial support we receive from national and European research promotion agencies.**

A selection of currently active projects is shown below. Please do not hesitate to contact us for further information or if you have interest to cooperate with NXP.

| Project | Scope | Funded by |
|---|---|---|
| CD Labor Digidow | **Private Digital Authentication in The Physical World.** |  Christian Doppler Forschungsgesellschaft |
| CD Labor Localization | **Trusted Localization for Keyless Access Systems.** |  Christian Doppler Forschungsgesellschaft |
| FERMION | **Formal Verification of Masked Hardware Implementations.** |  FFG Forschung wirkt. |
| Inno EBS | **Interdisciplinary knowledge transfer in Electronic Based Systems (EBS).** |  FFG Forschung wirkt. |
| InSecTT | **Intelligent Secure Trustable Things.** (Link) |  FFG Forschung wirkt. ECSEL Joint Undertaking Electronic Components and Systems for European Leadership |

| Project | Scope | Funded by |
|---|---|---|
| Reindeer | **REsilient INteractive applications through hyper Diversity in Energy Efficient RadioWeaves technology.** (Link) |  |
| SAL Smart Mask | **Smart Mask by RFID.** |  |
| SAL WINGARDIUM | **Ultra-Wide-Band Gesture Detection and Angle of Arrival Estimation.** |  |

| Project | Scope | Funded by |
|---|---|---|
| SEAMAL BMS | **SEcurely Applied MAchine Learning – Battery Management Systems.** |  |
| SEAMAL Front | **Securely Applied Machine Learning – Frontrunner. Machine Learning based next generation UWB secure car access IC platform.** |  |
| SEAMAL IPCEI | **Securely Applied Machine Learning - Important Project of Common European Interest - Energy-Efficient Chips** (Link) |  |
| Tex-Hype | **TEXtile integrated HYbrid Printed Electronics.** |  |