



Cooperative Research Projects

"SEAMAL BMS" SEcurely Applied MACHine Learning - Battery Management Systems

The objective of the SEAMAL BMS project is to create concepts and develop the next generation of a universal connectivity module for cost-effective use in smart and safe battery management systems (BMS). The goal for this project is to provide advancements for these systems to be used in electric vehicles for optimal use of battery resources and range optimization.

This project is co-financed by the [European Regional Development Fund \(EFRE\)](#).








"SEAMAL IPCEI" SEcurely Applied MACHine Learning - Important Project of Common European Interest

In the IPCEI ME, NXP Semiconductors Austria focuses on hardware-based solutions for secure and reliable implementations of energy-efficient chip platforms in smart access applications. The project supports the further expansion of the R&D competence center in Gratkorn near Graz and enables a stronger emphasis on the topic of security in the [European IPCEI consortium](#).







A further 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	
AWARE	Hardware Ensured Software Security	 FFG Forschung wirkt.	
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	
Enhance UWB	Benchmarking and advancing localization and communication performance of UWB systems in harsh environments	 FFG Forschung wirkt.	 COMET Competence Centers for Excellent Technologies






Project	Scope	Funded by
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 WINGARDIUM	Secure Ultra- Wide-Band Gesture Detection and Angle of Arrival Estimation.	



Project	Scope	Funded by
SEAMAL BMS	SEcurely Applied MAchine Learning – Battery Management Systems.	  <small>Europäische Union Investition in Wachstum & Beschäftigung Österreich</small>
SEAMAL Front	SEcurely Applied MAchine Learning – Frontrunner. Machine Learning based next generation UWB secure car access IC platform.	



Project	Scope	Funded by
SEAMAL IPCEI	SEcurely Applied MAchine Learning - Important Project of Common European Interest - Energy- Efficient Chips (Link)	 SEAMAL IPCEI FFG Promoting Innovation.  aws IPCEI on Microelectronics 
Tex-Hype	TEXtile integrated HYbrid Printed Electronics (Link)	 FFG Forschung wirkt.