

NEMO zBMS hardware unveiled: enabling next-generation battery management

*NEMO is a project focused on **advancing Battery Management Systems (BMS)** by integrating cutting-edge hardware - such as advanced sensor technologies (**EIS**) and electrochemical models - to enhance battery **efficiency, safety, and performance**.*

This first webinar provides an overview of the key components in NEMO's zBMS architecture and the underlying technologies. The event is intended to highlight the corresponding hardware and their influence on software approaches in more detail (i.e., requirement of a powerful central processor to implement the innovative features).

Agenda

WELCOME AND INTRODUCTION

- Dr. Martina **Weise**, Full Stack Software Engineer, IAV
- Philipp **Körner**, Technical Consultant Data Science, IAV

TECHNICAL PRESENTATIONS

- Thomas **Percz**, Hardware Design Engineer for Electrified Systems and Battery System Development, IAV
Introduction to BMS Hardware including Aurix TC4
- Norbert **Sailer**, Senior Engineer, IFAT
Overview of the IFAT EIS Chip Single Cell BMS IC
- Andreas **Hutter**, Co-director Battery Innovation Hub, CSEM
Exploiting EIS and associated challenges

Q&A Session



Co-funded by
the European Union

Swiss participant Centre Suisse d'Electronique et de Microtechnique SA - Recherche et Developpment (CSEM) has received fundings from the Swiss State Secretariat for Education, Research and Innovation (SERI).