

## PITCHING-SESSION II : ENSAX MEETS KMU



**Dr.-Ing. Thomas Barucki**

# Tätigkeitsfelder



Software-  
Entwicklung



Projekt-  
Bearbeitung

The screenshot displays the Infineon IPOSIM web application interface. At the top, there is a navigation bar with options like 'New', 'Open', 'Save', 'Share', 'More', and 'No Design'. The user's name 'Thomas Barucki' and other account options are visible. The main header features the Infineon logo and the text 'Infineon IPOSIM'. Below this is a menu with 'TOPOLOGY', 'INPUTS', 'DEVICE SELECTION', 'APPLICATION DATA', 'RESULTS', and 'DOWNLOAD'. The 'TOPOLOGY' tab is active, showing 'Selected Topology: AC\_DC - B6C'. The 'Circuit & Control Parameters' section includes a dropdown for 'Topology' set to 'B6C - Six-pulse bridge fully controlled'. Parameters listed are: Input Voltage (400 V), Blocking Voltage (1400 V), Line Frequency (50 Hz), Output Current (avg) (100 A), Output Current (rms) (100 A), and Form Factor Of Device Current (1.732). A checkbox for 'Do you want to define a load cycle?' is present. To the right, a schematic diagram of a six-pulse bridge rectifier is shown with input voltage  $V_{in}$  and output voltage  $V_{out}$ . A 'Next' button is located at the bottom right of the parameter section. The footer contains 'APPLICATION STATUS: OK', version information, and the 'POWERED BY TRANSIM' logo.

<https://infineon.transim.com/iposim/default.aspx>

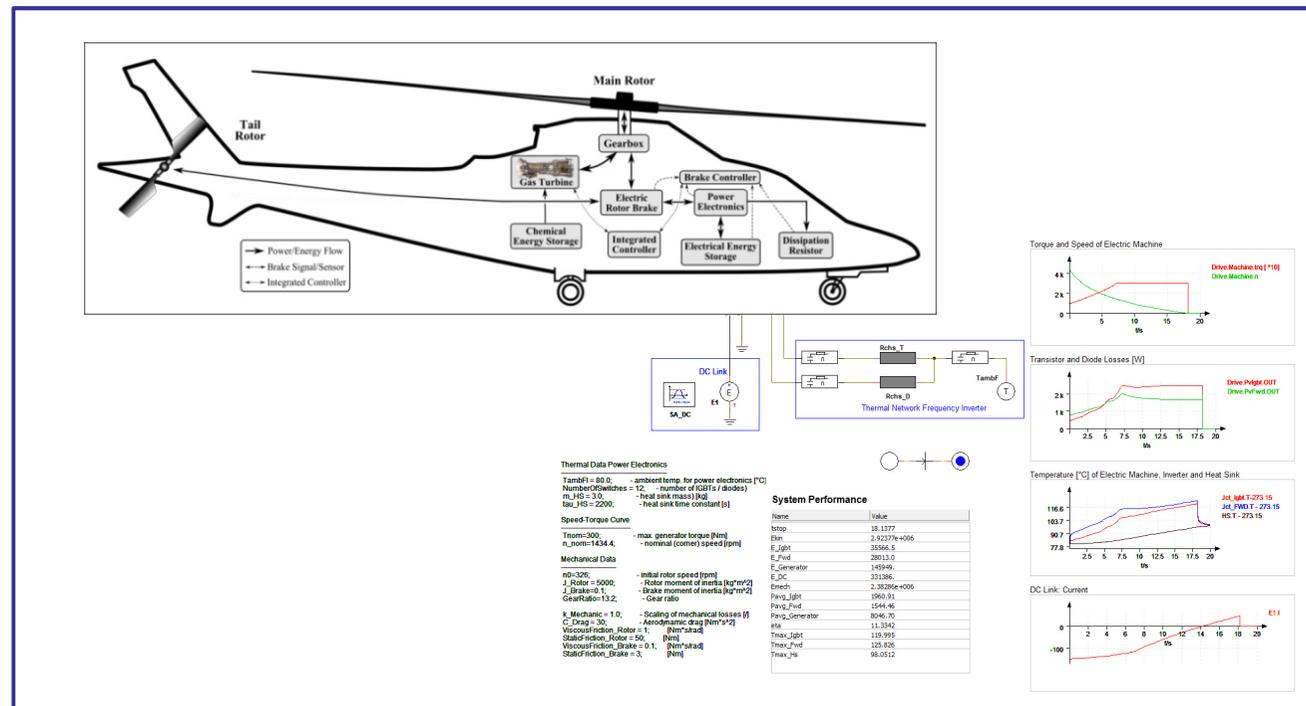
# Tätigkeitsfelder



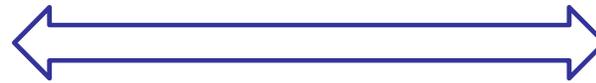
Software-  
Entwicklung



Projekt-  
Bearbeitung



Software-  
Entwicklung



Projekt-  
Bearbeitung



The screenshot shows the website 'Mikroelektronikforschung' with the following content:

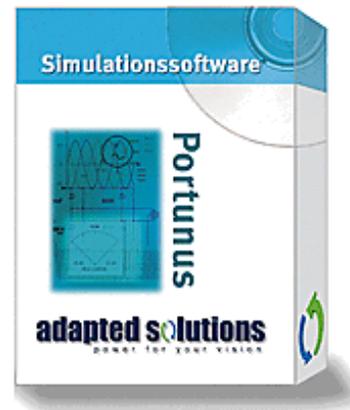
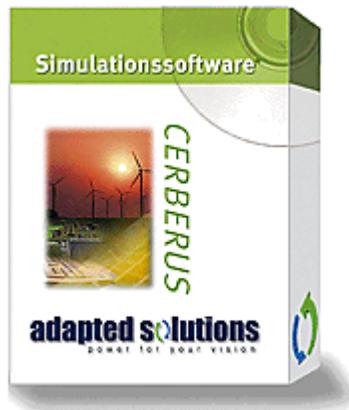
- Logo of the Bundesministerium für Bildung und Forschung.
- Navigation menu: STARTSEITE, KONTAKT, IMPRESSUM, DATENSCHUTZ, ÜBERSICHT, GEBÄRDENSPRACHE, LEICHTE SPRACHE, Suchbegriff.
- Section: **Mikroelektronikforschung**
- Sub-section: **Projekte**
- Project Title: **SiCuM**
- Project Description: **Kompakte und robuste Siliziumcarbid-Leistungselektronik für die urbane Mobilität**
- Image: A modern white tram with '82 Hauptbahnhof' on its destination display.
- Text below image: Schienenfahrzeuge für die Stadt sollen von besonders kompakter Leistungselektronik profitieren. © www.siemens.com/presse
- Project Information sidebar:
  - PROJEKTINFORMATION**
  - Verbundkoordinator:** Infineon Technologies AG
  - Partner:**
    - Infineon Technologies AG (Koordinator), Neubiberg
    - Siemens AG, Nürnberg
    - Universität Bayreuth
    - Adapted Solutions GmbH, Chemnitz
    - TZO Leipzig GmbH (assoziiert)
  - Volumen:** 6,28 Mio. € (davon 48 % Förderanteil durch BMBF)
  - Laufzeit:** 01/2017 - 12/2019
  - Bekanntmachung:** Kompakter und robuster Leistungselektronik der nächsten Generation (KomroL)

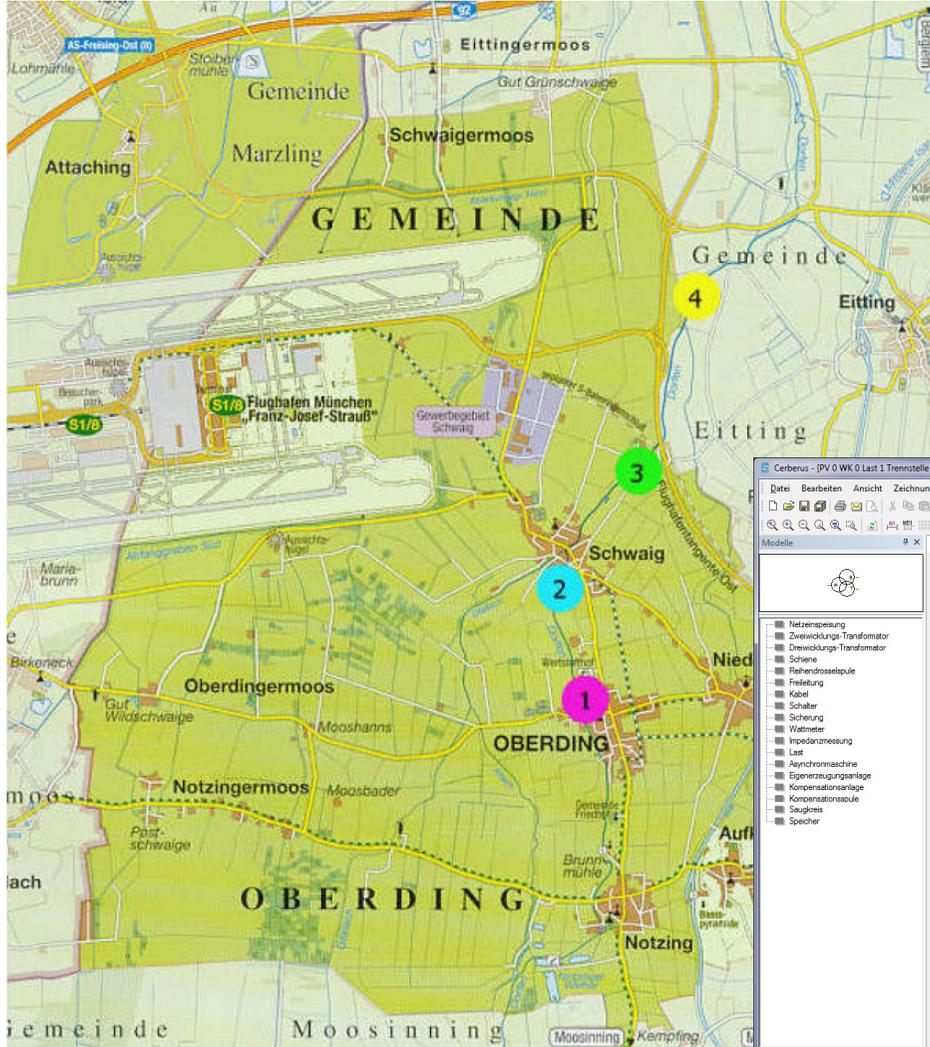
<http://www.elektronikforschung.de/projekte/sicum>

**Software-  
Entwicklung**

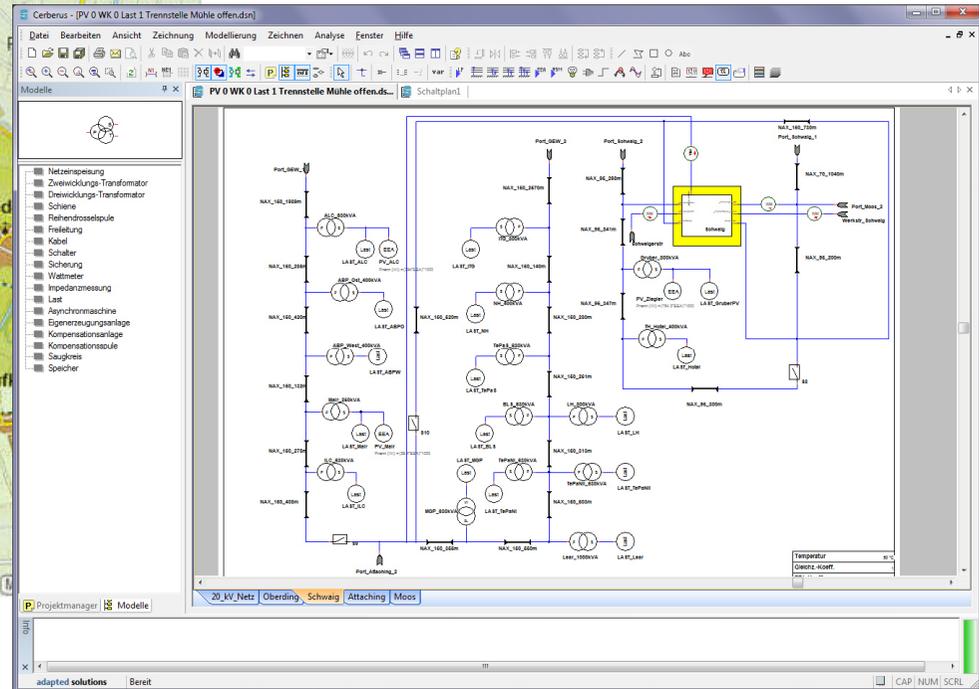


**Projekt-  
Bearbeitung**





F. Schweiger  
„Potential eines Smart Grid am Beispiel  
eines Stromverteilungsnetzes im ländlichen  
Raum“  
CERBERUS-Anwendertreffen 2012



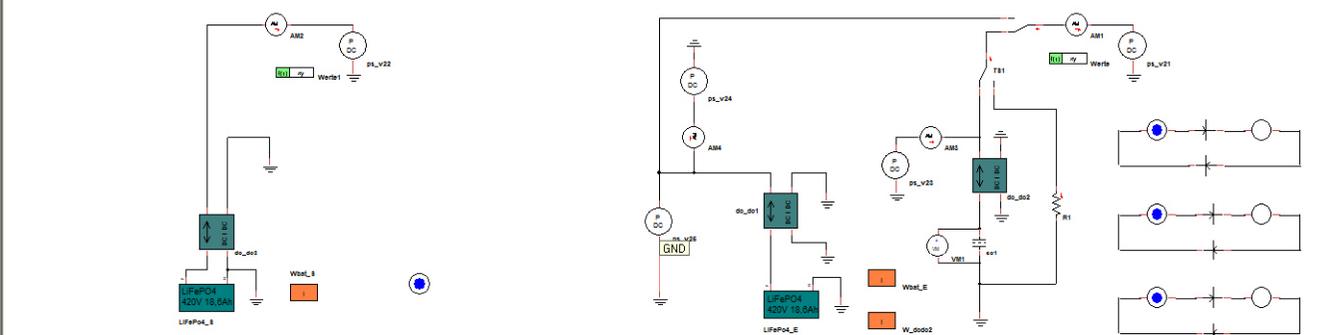
Portunus - [Vergleich\_whz\_erweiterter\_dualer\_Speicher\_Batterie\_26\_Runden\_wirkungsgrad\_0\_5.ecd]

File Edit View Modules Sheet Drawing Modelling Analysis Window Help

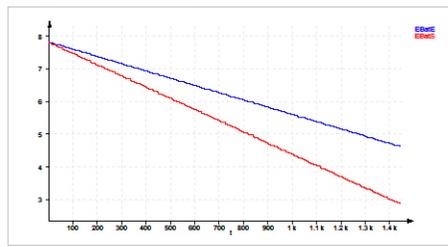
Vergleich\_whz\_erweiterter\_dualer\_Speicher\_Batterie\_26\_Runden\_wirkungsgrad\_0\_5.ecd Schematic1

## Comparison of Electric Racing Car Configurations using simple and extended Battery Configurations

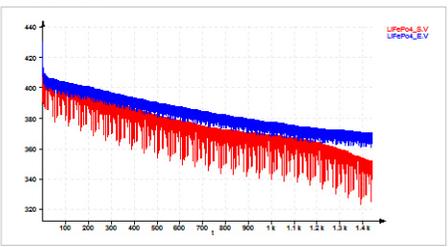
Courtesy by West Saxon University of Applied Sciences Zwickau



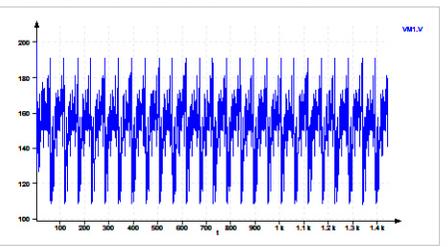
Energy Content of Batteries



Battery Voltages



Voltage of additional Storage Unit (extended configuration)



20121: A division by zero was detected in model <Sen\_a>.  
Simulation finished. 0 error(s). 1 warning(s). (Simulation time: 0d 0h 0min 27s 162ms)

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# Warum Adapted Solutions?



# Weitere Informationen



## www.adapted-solutions.com

