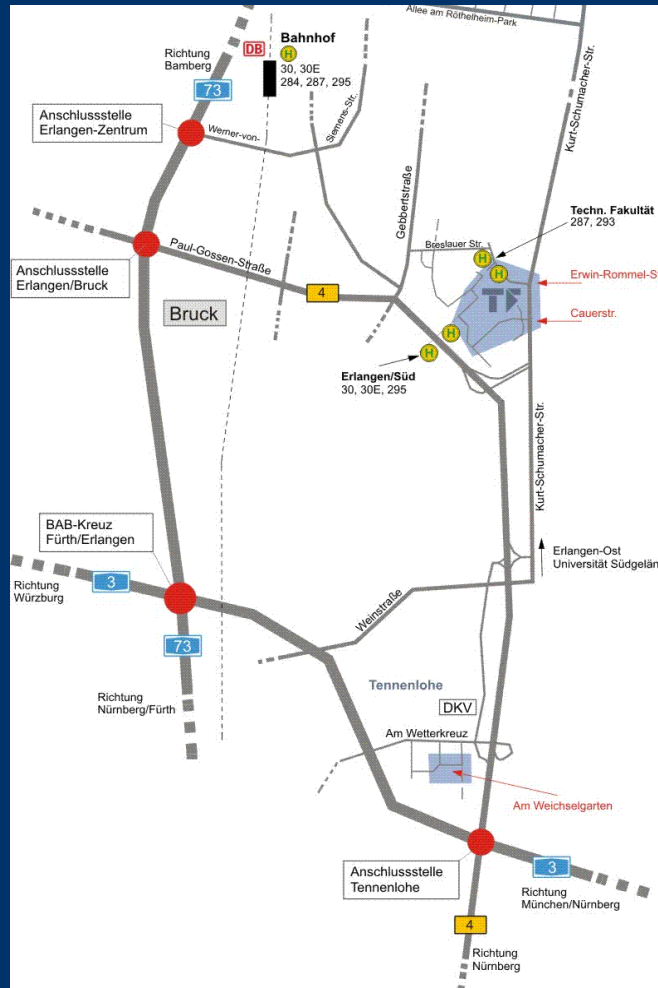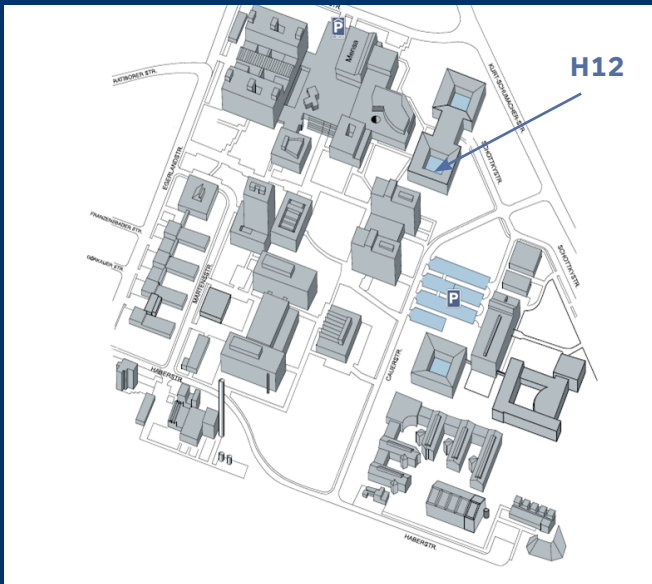## Embedded Talk @ FAU

The Embedded Talk is an established series of events that is an ideal information and communication forum to promote regular exchange between experts from science and industry. Immerse yourself into the world of Open Source Hardware and find out more about the latest developments in this field at the 18th Embedded Talk.

Important research questions here concern formats for the reusable exchange of IP blocks, portability of such modules between tools, licensing as well as new business models and marketing despite or precisely because of open source hardware. Conversely, there are questions about the safe use of freely available hardware, particularly with regard to security.

H12

By Train / Bus
from
Erlangen Central Station:
Bus 287 or 293
direction
„Sebaldussiedlung"
Stop:
„Technische Fakultät"

By Car
A3 Würzburg - Nürnberg;
B4 direction Erlangen;
Follow signs to
„Universität Südgelände"

Parking facilities:
at Cauerstraße

FAU

**Friedrich-Alexander-Universität
Research Center
Embedded Systems Initiative | ESI**

Open Source Hardware

Multiple Incentives, Multiple Pitfalls
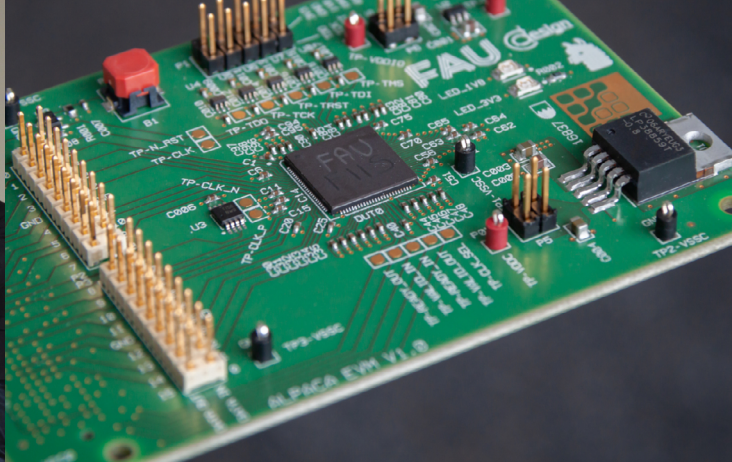
Embedded Talk, March 21st, 2025

About us

The FAU Research Center Embedded Systems Initiative (FAU ESI) is a central scientific institution at FAU.

A research center is closely linked to FAU's overarching research priorities and is active in at least one joint project. FAU ESI is located in the research focus area „Developing future technologies", as energy systems of the future, medical technology achievements or the full automation of production processes require innovative, future-oriented embedded systems and their (automated) design methods, models and tools.

FAU ESI was founded in 2022, based on the Interdisciplinary Center for Embedded Systems that existed from 2007 to 2021. It acts as a pioneer and incubator for basic research in the field of design, design automation and applications of future electronic embedded hardware/software systems. Its research activities initially focus on the three areas of Embedded AI, Post Silicon Technologies and Open Source Hardware.

FAU ESI currently has 22 members from 16 different chairs, 6 departments and 3 faculties.

Picture Credits:

- Dr.-Ing. Torsten Klie, FAU (Title & Talk)
- Andreas Bininda, FAU (Board)
- Fraunhofer IIS (Panel)

esi.fau.de

Agenda

13:00   **Welcome Remarks**

Prof. Dr.-Ing. Jürgen Teich
Speaker FAU ESI
FAU Erlangen-Nürnberg

13:15   **Open Source Chip Design: Key Ingredient for Europe's Chip Ambitions**

Prof. Dr. Stefan Wallentowitz
Hochschule München

14:00   **Coffee Break**

14:30   **Open Source in Hardware Design – Opportunities, Challenges and Examples**

Prof. Dr.-Ing. Norbert Wehn
Microelectronic Systems Design Research Group
RPTU Kaiserslautern-Landau

15:15   **Why contribute to Open Source? — Opportunities and Fallacies from an Industrial Perspective**

Dr. Christian Höppler
Senior Expert Open Source
Robert Bosch GmbH

16:00   **Poster-Session, Get-together and Networking**

Poster presentations from projects of the BMBF funding initiative DE:Sign and others

17:30   **End of the Event**

Venue

Campus Südgelände
FAU Erlangen-Nürnberg
Emmy-Noether-Hörsaal (H12)
Cauerstraße 11
91058 Erlangen

Registration

https://www.esi.fau.de/et18

Participation is free of charge.

We are looking forward to your registration!

esi.fau.de