



# KI - Power

## Open Innovation Challenge

# RULES

### Contest description

This **Open Innovation Challenge** is a European competition open to everyone but focused on students and postgraduate students in all aspects of embedded systems related to power electronics, electric drives, and their control. They are subject to the eligibility criteria described in this document.

The contest is organized by the ECPE Power Electronics Cluster in cooperation with the Technische Hochschule Nürnberg.

### Important Dates

The competition will start on the 1<sup>st</sup> of July 2024. The duration of the competition will be exactly 1 year, so that the contributions must be submitted by 30<sup>th</sup> of June 2025. An award ceremony will be held in Germany at the end of 2025.

Important innovation competition dates will be announced on the ECPE website. Please check the website regularly as dates may be subject to change.

### Registration

Registration is done via the ECPE website (<http://www.ecpe.org/ki-power>).

Only individuals can register. Multiple entries of the same person are prohibited.

Early registration is not binding but is awarded with benefits at the discretion of the organizer.

### Eligibility Criteria

This innovation competition is open to everyone in the countries listed in the Appendix A.

If your country is not listed, you unfortunately cannot participate in this competition.

The participant must be at minimum 18 years of age to enter.

Persons involved in the organization of the contest are not eligible to participate.

## Hardware requirements

The primary embedded systems platform for this competition is the UltraZohm.

In addition, other embedded system platforms, including Development Boards and proprietary developments, are allowed. However, no license will be provided in this case. Furthermore, the entrant must provide access to their embedded system for demonstration purposes during the awards ceremony.

An UltraZohm system with a small test bench can be used via remote access. Authorization for use is at the discretion of the organizer.

## Awards

Prizes will be awarded for the best project(s) as determined by the organizers according to the judging criteria stated below.

Every participant receives one UltraZohm cup.

Awards for the winners are sponsored by industry partners and include:

- Apple iPad 64GB
- Guided tour: Insights into the production of electric drives at ZF Friedrichshafen in Schweinfurt (Accommodation not included)
- Apple Watch SE

The awards will be handed over during the award ceremony at the end of 2025.

## Entry submission

Any software stack may be used to implement the project.

Registered entrants will receive instructions on how to upload their entry. Entries must be uploaded by the dates specified on the website or in any official communication from the organizers.

Participants should upload complete source code and project files, documentation, and a brief (2-4 pages) written report in English. The contributions must be published using the FOSS (Apache 2.0) license.

## Judging Criteria

Submissions will be judged equally across the following categories:

- Technical Complexity (20%)
- Implementation (20%)
- Marketability/Innovation (20%)
- Documentation and Written Report (20%)
- Re-usability (20%)

All participants are required to publish their projects on Bitbucket/GitHub or other similar project hosting websites with appropriate open-source licenses.

## **Intellectual Property (IP)**

The submission must be licensed under FOSS (Apache 2.0). The participants are responsible, that no licenses violations regarding third parties occur due to software and /or code the participants used for their submission.

The project entry must include complete source code. Third parties (e.g. judges) must be able to recreate any object/executable code. The code must be packaged and presented as part of the complete project folder.

Entrants agree to grant the organizers a non-exclusive, assignable right to copy, reproduce, display, publish, and distribute this software in any media, without any territorial limitation, as part of any project presentation. All participants submitting projects to the competition grant the organizers the right to publish (in print or electronic/Internet media) the submitted or extracted abstract (including the block diagram, photograph, schematic, and software code sample). This is for the purpose of administration, judging, and promotion of the competition.

These rules are subject to change at any time.

Organizers decision is final.

## **Appendix A**

Participants from institutes in the following countries are eligible to enter the **Open Innovation Challenge**:

Austria, Belgium, Bulgaria, Croatia, Republic of Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lichtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.