

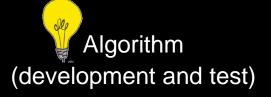
What is TAPAS?





What is TAPAS?

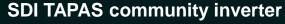












- ~300W @ 48V GaN
- Light 80 gram (200 gram incl. housing)
- No heat sink / PCB convection cooling
- High bandwidth (>300kHz switching frequency)
- Smooth output (on-board filter)
- Universal can be used for robotics, motor drives, battery charging, DC/DC, AC/DC, audio, etc.
- Open source Raspberry PI compatible

















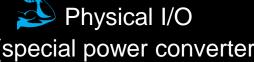


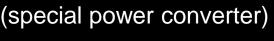
2005



2012









Unrestricted © Siemens AG 2018

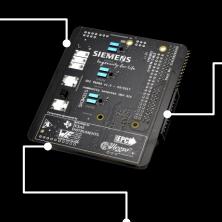


TAPAS Community Challenge



Motivation for Siemens

Increase popularity within academic and maker community.



Build a **community** as central element in modern product development. Direct market feedback and technology testing including community generated functionalities.

Establish Siemens as highly innovative player in the area of software defined inverters and/or power electronics.

Maker!



Students and University Employees as participants, Professors as academic multipliers



Initially **Europe**, to be expanded globally

IN PARALLEL

TAPAS Community Challenge



Phases



Round of finalists

(26.+27.7.18)

- Present project and pitch results to an audience
- Selection of winning team by a jury of experts from Siemens and Friedrich Alexander University Erlangen
- Win 5000€

Idea submission

(March-June)

- Registration via TAPAS webpage
- Short description of what to do with the TAPAS board
- Discussion of ideas by community
- Screening of ideas by Siemens experts and selection of thoses who get a TAPAS board FOR FREE



Project realization

(March-June)

- Teams receive TAPAS boards
- Realizatrion of project, ongoing discussion with community and Siemens experts
- Upload of results (including link to code and short video) until 13.06.18

5 Finalists

TAPAS Community Challenge



Timeline

26.02.-13.06.2018

Idea submission

Send out TAPAS boards, Idea realization, project work

50+ ideas

in community idea board

Continuous screening and selection Send out TAPAS boards

50+ projects

running with TAPAS board

Individually, code at home

13.06.-27.06.2018

26.+27.07.2018

Selection of 5 Finalists

Final Round



1 Winning Team

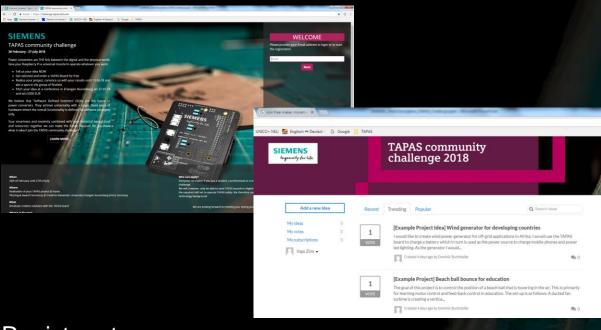
5 Finalists

On site @FAU Erlangen

TAPAS Community Challenge

SIEMENS
Ingenuity for life

How to apply and what to win



Register at https://challenge.tapas.sdi.tools/

Post your idea
Discuss with the Community



27.07.2018

1 Winning Team 5000€

Get your TAPAS board FOR FREE

What we need from you





- Are there events which would be suited to make advertisement? Could we give a short presentation?
- Do you know professors or Fachschaften we (you) could specifically address?
- Is there a maker space at the university?

What do you need?

- Flyer, Posters, digital versions?
- Fact sheet for professors?

Spread the word! → Specific and target-group oriented advertisement at university

Need more information?



On the Challenge

Link to the Challenge: https://challenge.tapas.sdi.tools/

Link to the Video auf LinkedIN

https://www.linkedin.com/feed/update/urn:li:activity:6376826518039076864/

Link zu Video auf Twitter https://twitter.com/BuschRo/status/971060665019523072

On the TAPAS Board itself

Pictures of the Future Article: https://www.siemens.com/innovation/en/home/pictures-of-the-future/industry-and-automation/the-future-of-manufacturing-innovative-inverter.html

GitHub Link https://github.com/SDI-SoftwareDefinedInverter/TAPAS/blob/master/README.md

Contact Dominic or Inga





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