ONE FAMILY ONE SOFTWARE

Experience a new level of digital learning with Joy-Pi software! A single, customized software guides you through a world of knowledge and practice.

Our proprietary learning center opens gates to a wealth of information, detailed explanations and interactive tutorials that make learning not only efficient, but also exciting.

For users of the Joy-Pi Advanced, we have another highlight: our software runs seamlessly on both the Raspberry Pi and Windows devices. This way, we guarantee maximum flexibility and adaptability for any learning style and technical setup.

With Joy-Pi software, learning is not just knowledge transfer, but an experience!

THE JOY-PI IN NUMBERS: A SUCCESS STORY THAT NEVER ENDS!

Behind every great product is often an even more impressive story. The Joy-Pi software is the result of passionate dedication, technical brilliance and tireless work. Over 300,000 lines of code form the heart of this revolutionary learning platform.

Each and every line represents the care and expertise our team has put into created the best possible learning experience for you. But that's not all. Over two years, we've tinkered, programmed, and tweaked to perfect every function and feature of the software. feature of the software to perfection. The result? Software that is unparalleled in its complexity and efficiency.

But we do not stop here. Through constant updates, we expand and improve the content, making it even more useful and relevant. With each update, the variety and quality of our learning platform grows to always provide the most up-to-date and and comprehensive learning experience.

CURIOSITY MEETS EXPERTISE: OUR KNOWLEDGE BASE

The knowledge base of your Joy-Pi Advanced is more than just a source of information. It is a gateway to the world of electronics where curiosity meets expertise. Everyone from newbies to experts will find exactly what they're looking for.

Start with our easy-to-understand explanations that make getting started with each module a breeze. Then, if you want to dive deeper, we offer insights into the technical details and complex world of microelectronics. But that's just the tip of the iceberg. Our detailed schematics will clarify how each module works and how it's built, so you'll understand not only what you're doing, but why.

For those ready to get hands-on, our step-by-step tutorials are just what you need. They'll take you from initial idea to full-blown implementation, always with the goal of making sure you get the most out of your Joy-Pi.

And for our coding enthusiasts, we have a special treat: precise code examples for each module, perfected and optimized by our experts. Whether you want to target a specific function or implement a complex project, we have the right code for you.

In short, our knowledge base is an El Dorado for every technology enthusiast.

Every piece of information, every tip, every detail - everything has been compiled with the utmost care to give you the best possible experience.

EVERYTHING AT A GLANCE!

A clear dashboard is waiting for you! Our graphically prepared overview of the mainboard guides you effortlessly through the Joy-Pi universe.

Every module, every detail, everything clearly structured and just a click away. Discover the Joy-Pi world in all its diversity and be inspired by the quality and amount of information provided.

Simple, intuitive, efficient - that's our knowledge base!

PROJECTS: IMMERSION WITHOUT DETOURS:

For all those who want to take the plunge into the fascinating world of microelectronics without getting lost in the depths of code, we have just the thing:

Our project area! Here, a world of already completed projects opens up to you, presenting the potential of the various sensors in impressive harmony. Each project is a living example of how to master complexity and achieve impressive results.

But it gets even better: users of the Raspberry Pi will enjoy seamless integration. With just one click, you can start and stop any project directly from the software.

If you're still fiddling around with old-fashioned code copying, you're living in the Stone Age. With us you enter the age of the digital jet stream!
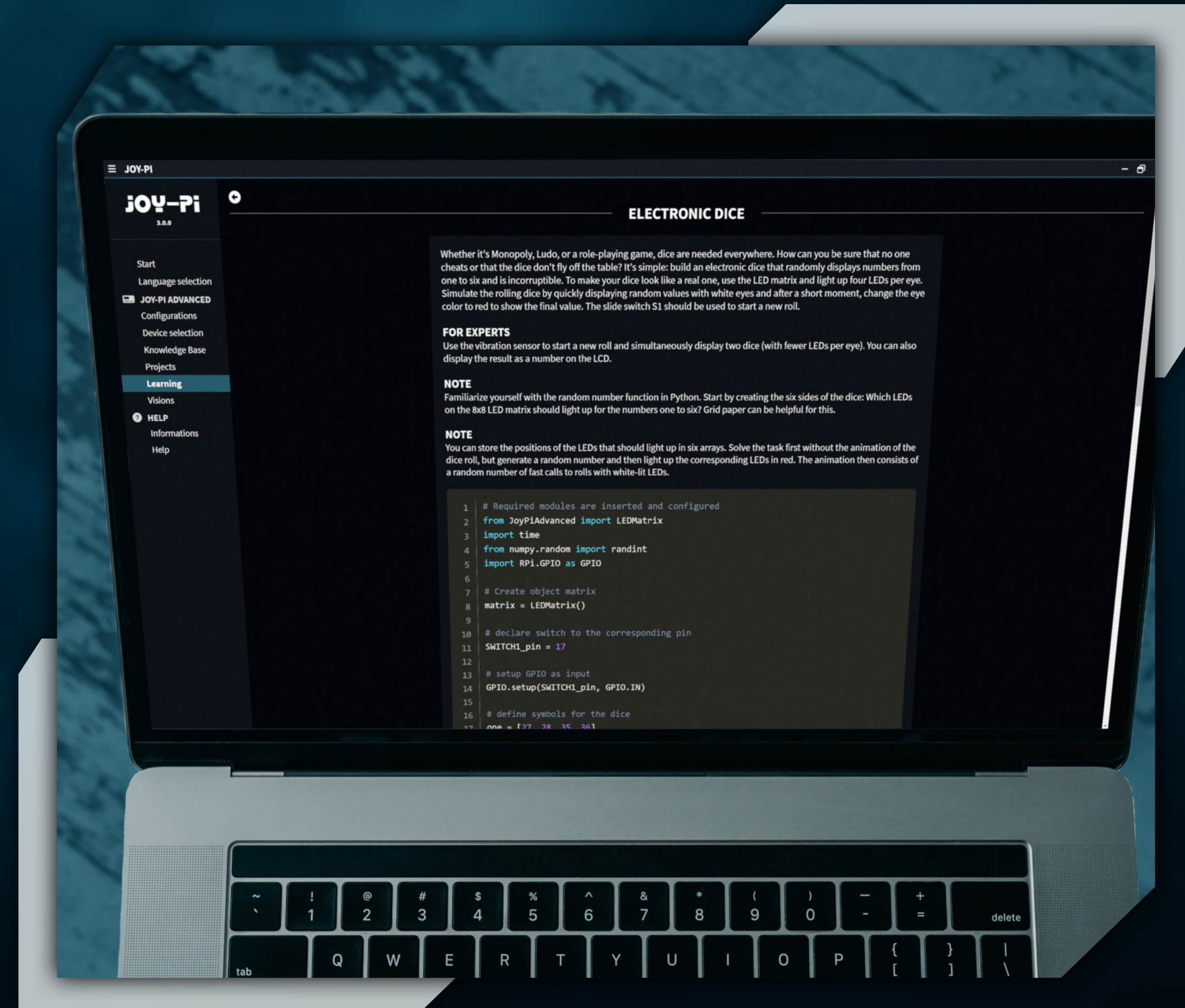
CHALLENGE MEETS LEARNING FUN

Our learning tasks are designed to awaken the explorer in you and increase your technical skills. Whether you are just entering the exciting world of microelectronics or if you are already an experienced tinkerer - here everyone will find a challenge that suits him or her.

Each learning task is an artful interplay of different sensors and modules, ready to test what you have learned and spark new skills. For the newbies among us, we offer helpful tips to get you started. And for those looking for an extra challenge, there's the Expert Task - an additional level of difficulty that will challenge even the most skilled.

But don't worry, our focus is on the learning process! That's why we guide you through each stage of your development journey with a sample solution to each task. This way, you can compare your own work, fine-tune it, and continue to develop. With us, it's very easy - because, as the saying goes, „Learning through play is easy as pie and a lot of fun!"
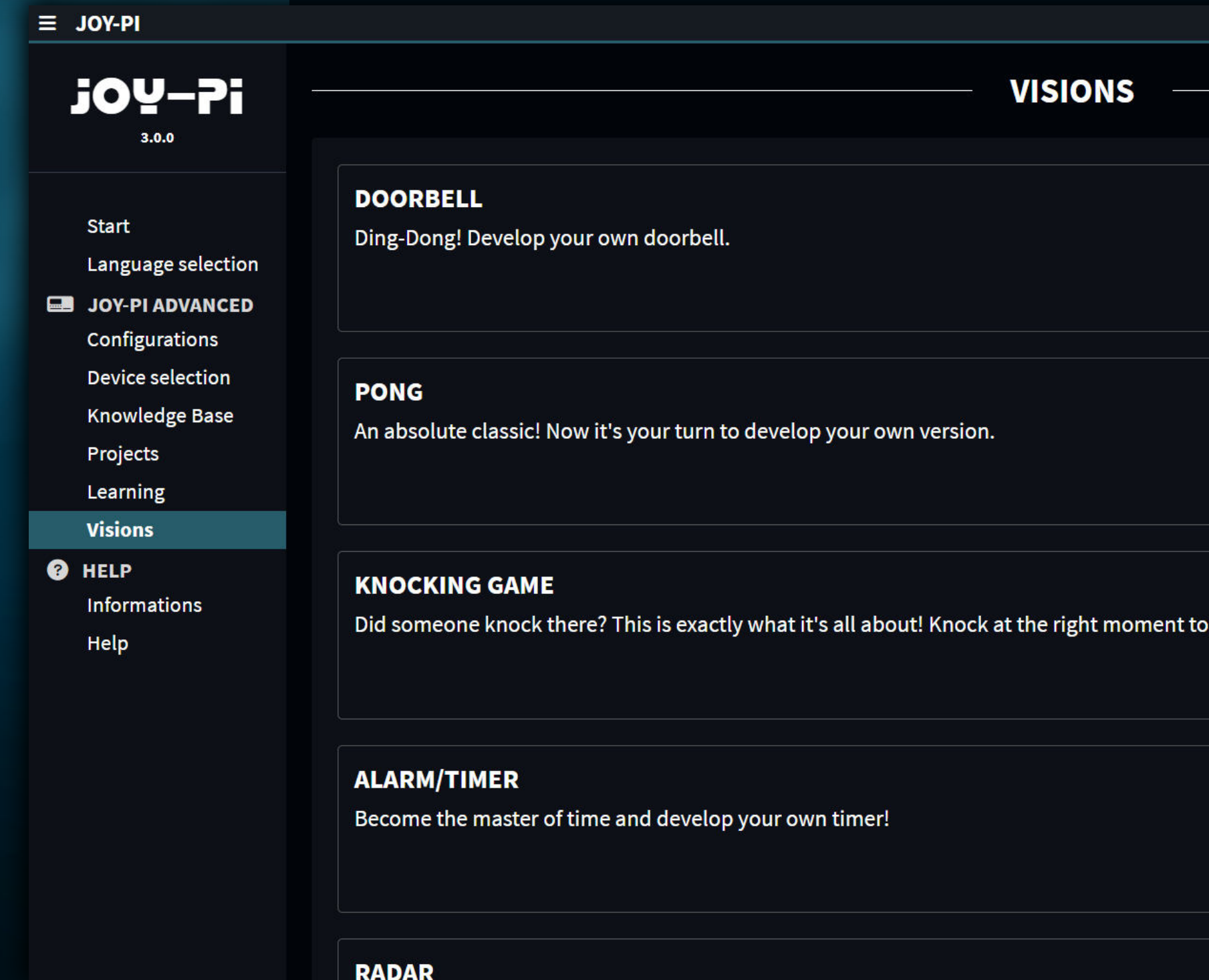
BOUNDLESS DEVELOPMENT AND CONSTANT DRIVE TO LEARN

There's always something new to discover in the world of Joy-Pis, and that's exactly what the „Visions" section is for. This is where the real tinkerers are called for who want to take on the challenge of putting their skills to the test, without tips or ready-made solutions.

What's special about the visions? Constant updates ensure that it never gets boring and that there is always a new learning incentive waiting. But that's not all: We want to actively involve our community in further development. Therefore, users have the unique chance to share their suggestions for solutions to the visions set via our support forum.

The incentive is not only the pride of having mastered a task. The first person to present a suitable sample solution for a given task and the matching microcontroller after the solution has been confirmed by us will not only be rewarded with a great gift. The name of the tinkerer will also be immortalized in the sample solution when the solved vision is later included in our regular lessons.

An ever-growing universe of tasks, combined with the chance for fame and recognition in the Joy Pi community. Because as we always say: Together we rock the thing! Together we are simply unbeatable!

☰ JOY-PI

JOY-PI
3.0.0

VISIONS

Start
Language selection
⌨ JOY-PI ADVANCED
Configurations
Device selection
Knowledge Base
Projects
Learning
Visions
❓ HELP
Informations
Help

DOORBELL
Ding-Dong! Develop your own doorbell.

PONG
An absolute classic! Now it's your turn to develop your own version.

KNOCKING GAME
Did someone knock there? This is exactly what it's all about! Knock at the right moment to

ALARM/TIMER
Become the master of time and develop your own timer!

RADAR

INDIVIDUAL LEARNING FOR EACH CONTROLLER

In the vast and fascinating world of the Joy-Pi Advanced, there is one place that works like a magic switch: The device selection. With just a few clicks, you can switch here between the various devices such as the Raspberry Pi, Raspberry Pi Pico, Arduino Nano, NodeMCU ESP32 and the BBC Micro:Bit.

The really impressive part? The choice doesn't remain a simple switch. The decision shapes the entire experience. Depending on the controller chosen, the entire learning environment adapts. From code examples to sample solutions to hints and tips - everything is tailored precisely to the selected device.

Specifically, this means no superfluous scrolling through irrelevant information, no confusion caused by code snippets that don't fit. Instead, a focused, optimized learning experience that takes into account the individual needs of each user. Best of all, once made, the setting is remembered across multiple launches. So the next time, users can continue working directly with the selected device.

With device selection, every user experiences a customized learning adventure, no matter which micro-controller is currently in focus. It's a bit like food: Everyone has their own taste. And just like a rich buffet, we have something for every taste. So, bon appétit to learning!

THE FUTURE OF LEARNING
IS JUST A CLICK AWAY:

WWW.JOY-PI.NET