

Discover the Power of Seamless GUI Design with **GEMstudio Pro**



Amulet

In today's market, user experience is the difference between gaining a loyal customer and losing one. At Amulet Technologies, we understand the need for technology that not only works but engages users and builds trust. That's why we developed **GEMstudio Pro**—the easiest, fastest, and most collaborative graphical user interface (GUI) design platform in the embedded space.

Amulet's GEMstudio Pro streamlines the design process, empowering all design team members, regardless of technical background, to create high-quality, smartphone-like GUIs that resonate with users.



This guide explores how **Amulet's GEMstudio Pro** platform bridges the gap between functional technology and an engaging user experience, ensuring your technology meets both business and user expectations.

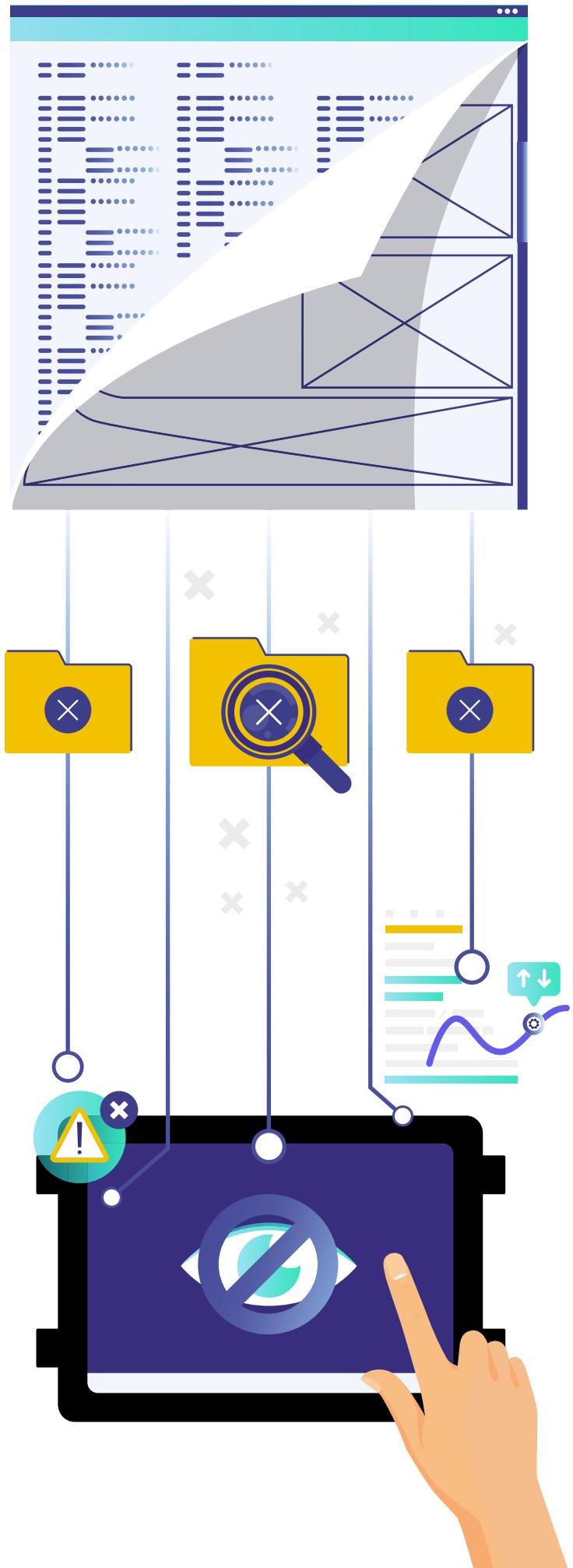
The Problem

One of the biggest challenges in bringing a new product to market is the **misalignment between design and engineering teams**.

When a modern UI is part of the product requirement, the misalignment is often exacerbated by shortcomings in conventional development tools. Traditional GUI design tools are known as code generators—visual layout tools that generate source code for the programmer to integrate and compile into their runtime code.

It is not uncommon for a software engineer to have a multitude of programming tasks with strict deadlines. Furthermore, UX is not typically within the core competencies of most programmers. Consequently, UX research is often overlooked, and UI development is added at the end of a project, leaving insufficient time for iteration or user testing. This can result in rushed products that do not fully meet user needs or, even worse, lead to costly redesigns and delays.

Without an efficient and collaborative GUI development platform, you risk building products that are functional but lack the engaging, polished interfaces that foster long-term trust.

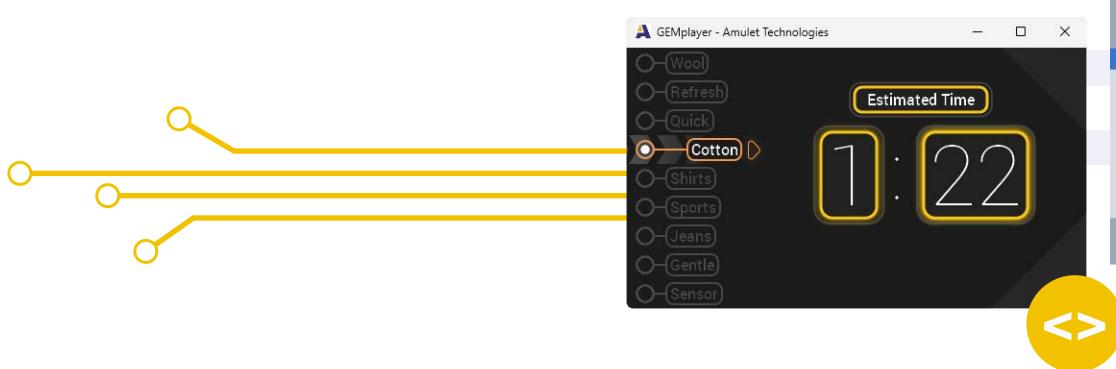
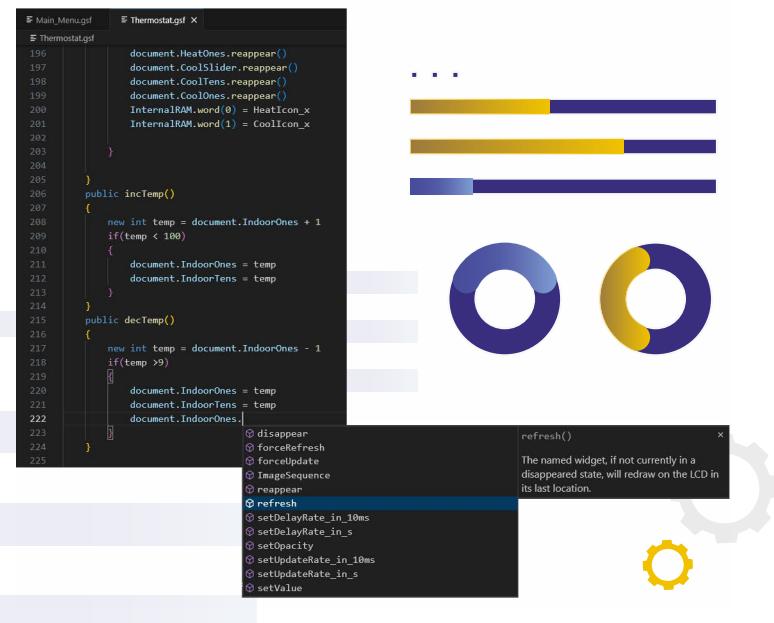


GEMstudio Pro: Your Key to Product Success

GEMstudio Pro stands out as the most user-friendly, efficient, and collaborative graphical user interface (GUI) design platform within the embedded systems industry.

Gone are the days of misaligned timelines and limited opportunities for user testing. With GEMstudio Pro, your UX research, design, and engineering teams can all work in parallel, allowing for rapid iterations and refinements of UIs—even before the product hardware is available.

As a single development environment supporting 3 tiers of team members, GEMstudio has you covered with early UX research, iterative UI development, and embedded firmware integration. GEMstudio **simplifies GUI development, reduces dependencies** between teams, and **accelerates the process** from months to days.



Simplifying Co-Development for Faster Innovation

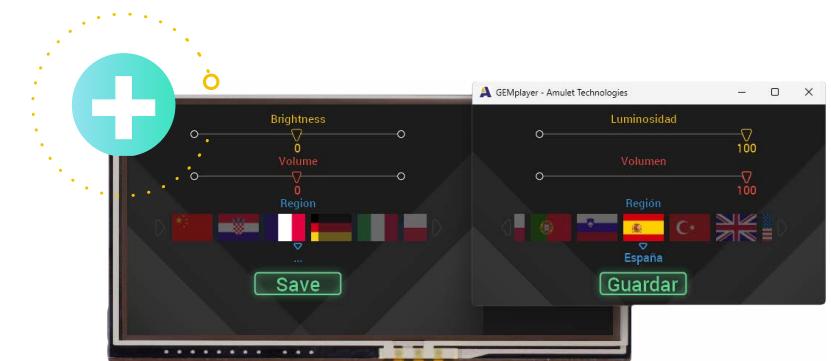
GEMstudio Pro solves the co-development challenges by **enabling simultaneous UI and software development**, thus reducing dependencies and speeding up the overall development process.

Notably, since UI changes don't require a regeneration of the application code, UI developers are free to iterate without fear of breaking the main application code and creating a revision control nightmare. Likewise, changes of the main application code won't require the UI to be rebuilt.

Tier 1: No Code and No Hardware

No programming background required! The platform's intuitive, true WYSIWYG (What You See Is What You Get) environment means **everyone can contribute to the design process**, regardless of technical background, to create high-quality, smartphone-like GUIs. This is particularly helpful when creating early UI mockups for user testing or for evaluating design concepts.

GEMstudio Pro platform provides powerful capabilities that enable you to design intuitive, responsive, and visually engaging UIs, including:



Rapid Prototyping: Quickly bring interface concepts to life, allowing for swift iterations and adjustments.

Early UX Testing: Evaluate usability in the initial stages to identify potential improvements and reduce costly changes later.

User Feedback: Gather real insights from users before launch, refining and tailoring the experience to ensure your product resonates with your users from day one.

The drag-and-drop visual designer also incorporates a turnkey app builder to create a fully interactive simulation app that runs on any PC. The simulator app serves as a virtual representation of your product, facilitating user interface testing prior to the design of device hardware.

Early UI testing and rapid UI design iterations are crucial to instill confidence that your product's interface will perform flawlessly, regardless of how complex your embedded system may be. This level of assurance not only **enhances your product's reliability** but also enriches the customer experience, **driving loyalty and satisfaction**.

Tier 2: Low-Code Customization

For the UI developers on your team, the powerful programming language, GEMscript, enables them to create custom interface controls and interactions that truly **differentiate your product in a competitive landscape.**

As a true low-code programming tool, the GEMstudio developer mode features modern programming productivity assistants such as automatic code completion, function hinting, and syntax highlighting. This enables your developers to allocate more time to crafting error-free code and less time searching Application Programming Interface (API) guides to ascertain the functionalities and parameters of various functions.

Moreover, developing a multilingual user interface is seamless with GEMstudio. Translation management is integrated into GEMstudio's build automation process, and the runtime string substitution functions are an integral component of every Amulet interactive display system.

Tier 3: Custom Hardware and the Advanced Developer

For the highly technical members of your team, or for customers that utilize custom-designed Amulet hardware, the GEMstudio Pro+ license features a symbolic debugger that can run on either native hardware or on the virtual hardware built by GEMstudio. In addition, the GEMstudio Pro+ build automation module integrates with a native toolchain to compile, link, and bind your native user thread code to your GEMstudio-developed UI binary.

Adhering to GEMstudio's user-friendly philosophy, these advanced productivity features are meticulously designed to streamline your workflow and enhance the reliability of your code.

With Amulet's GEMstudio Pro, you have the key to unlock product success and deliver exceptional user experiences that foster loyalty.

The Flexibility to Meet Your Unique Needs

GEMstudio Pro is part of the Amulet interactive digital display platform; it's a transformative solution tailored to your unique needs.

This platform supports a wide range of display sizes and input technologies, ensuring your solutions can adapt as your business grows. Imagine designing a user interface for a medical device that demands precision and reliability or crafting an appliance that not only functions seamlessly but also captivates users with its visual appeal. With GEMstudio Pro, you have the flexibility to meet these diverse requirements with ease.



Partnership with Amulet

When you partner with Amulet, **you gain a strategic ally** that helps you overcome the most critical challenges in developing smart interactive products that resonate with your customers.

With Amulet, you'll experience:

Accelerated Time to Market: Our integrated solutions speed up development, ensuring your product reaches the market faster.

Enhanced Performance and Reliability: Amulet's Interactive Digital Display Solutions ensure your product works exceptionally well, building user trust and satisfaction.

Customization and Flexibility: Our solutions are designed to be adaptable, ensuring your product can evolve with market demands without requiring major overhauls.

Cost Savings: By reducing development and maintenance complexities, Amulet helps you stay competitive in an increasingly crowded marketplace.

Long-Term Advantages

Consistent UI Experience: Adherence to UX best practices ensures a seamless user experience across all devices, making your product easier to use and increasing customer satisfaction.

Future-Proofing: Our market-leading UI Authoring Platform and integrated services make it easy to upgrade and scale as needed, ensuring your product stays ahead of the competition.

Maximizing Customer Delivery: We complement your engineering expertise with our design services, ensuring your product delivers on both functionality and usability for the long term.

We have a proven track record of delivering transformative results. By prioritizing user experience and simplifying complex systems, we've helped leading companies—like **Bosch**, **Stryker**, **Abbott Laboratories**, and **Rheem**—enhance their products, reduce costs, and improve efficiency.

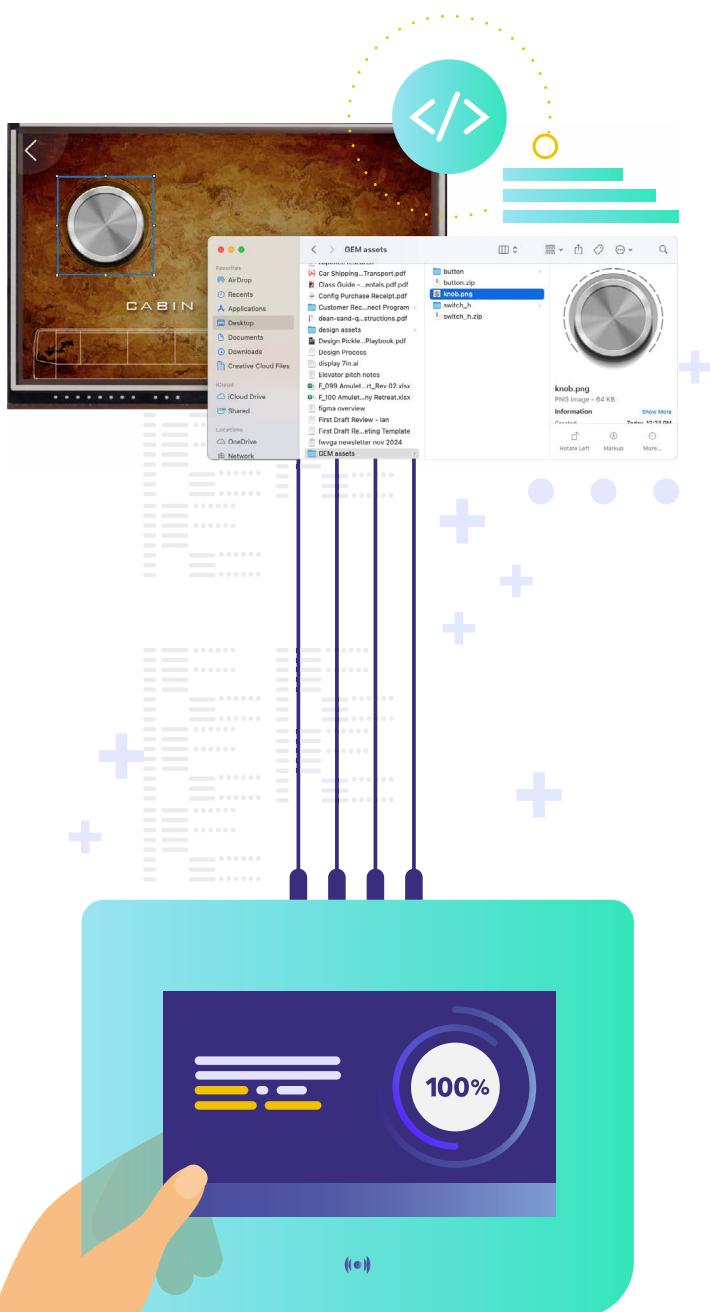
Whether you're developing interactive digital displays for appliances, test equipment, medical devices, or HVAC systems, we ensure your product is not only operational but intuitive, reliable, and trusted by users—bridging the gap between functionality and user satisfaction.



Next Steps

Amulet's GEMstudio Pro platform simplifies GUI development, reduces dependencies, and accelerates the design process. Our platform ensures your products don't just meet industry standards—they set them.

Ready to **transform your GUI** design and achieve greater success in the market?



Download Your Buyer's Guide:

Discover how Amulet's solutions can transform your product development process.

Engage with a Design Expert:

Talk to us about creating innovative, user-centered Interactive Digital Display Solutions tailored to your needs.

Get a Quote.