



## CASE STUDY

# ASSEMBLY SERVICES IN ACTION: PRE-PRODUCTION TASKS FULFILL NEEDS FOR PHARMACY AUTOMATION



Original Equipment Manufacturers (OEMs) know they can receive high-quality components from American Bright for nearly any LED application and are also aware of American Bright's expert engineering, comprehensive in-house testing, and customization capabilities.

Yet few might know that the leading LED supplier can also provide assembly services.

One OEM who discovered this fact recently had previously relied on American Bright's standard product

offering through a third party. While upgrading one of its signature products — a console for pharmacists that automatically dispenses pills and prints prescription labels — this customer experienced American Bright's value-added assembly services for the first time.

The outcome was the elimination of an entire outsourced design cycle, more immediate production parts, and significant reduction in cost.





## A NEW PRESCRIPTION FOR SUCCESS

The vial-filling solution allows pharmacists to expedite up to 232 prescriptions at the same time. The console employs LEDs in a long strip across the array of vial dispensing slots, providing both diffuse illumination and user interface (UI) signaling. When an error is detected — a jam in the machine, for example — the addressable LEDs at the dispensing point turn red, pointing users to the source of the problem.

In previous versions, the customer used to source a long roll of LED strips along with the parts required for wiring through its distribution chain. Once they received the components, they shipped them out again to an outsourced contract manufacturer, who would cut the strips to size, attach connectors and peripherals according to specification. The finished assemblies would then be shipped back to the main production line.

## CUTTING OUT THE MIDDLE

In this product release, the OEM cut out the middleman. The client asked American Bright to supply the parts and create the entire supporting assembly, based on specific requirements for the light strips, including the use of gold-plated connectors and the application of durable VHB tape. The instructions also included adding labels with part numbers on each configuration.

This time, instead of shipping individual components, American Bright shipped the complete strip assembly including the custom light strip cut to length. American Bright also added connectors and special packaging to the assembly, ready to install into the final product design.



## SPECIAL ATTENTION TO DETAIL

As it turns out, the extra handling from American Bright added up to significantly less than the typical invoice from a contract manufacturer. And instead of waiting in line for the job to get done and paying for an extra round of logistics, the manufacturing received the LED portion of its product in far less time for far less cost.

The same attention to detail and responsiveness American Bright customers receive from engineering services can be found in value-added manufacturing tasks. The client was able to easily communicate with the LED project team and adjust the order over the course of development.

In this case, the manufacturer was restricted from procuring parts originating in Chinese factories, so the American Bright project manager was sure to

secure the right supplies from Taiwan instead. The project also involved several stages of prototype approval, with modifications on the assembly after client feedback. A key part of the project success was in-person meetings at the client's headquarters, which helped build customer confidence in American Bright's capabilities.

American Bright is not just an LED component supplier — it is a complete solution provider dedicated to outstanding customer service. With decades of experience in implementing LED technology, American Bright can be your reliable and trusted partner in product development.

Contact the team for a free consultation about your LED design requirements.

