

Funk Engineering helps bring a bright concept to life

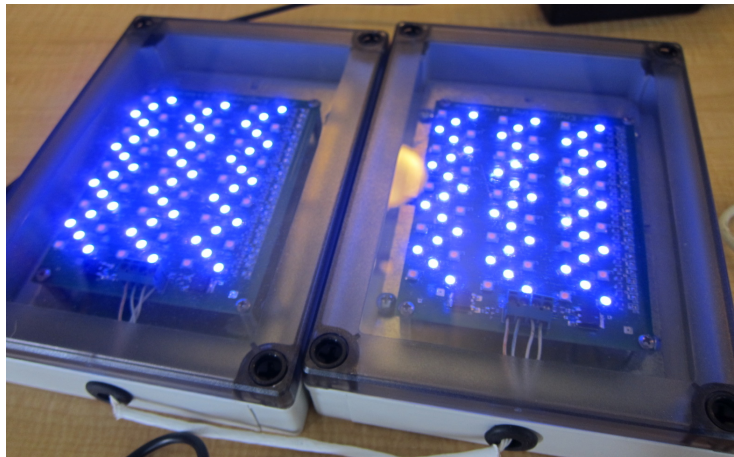
Firm works with local printing and graphic solutions company with a big idea

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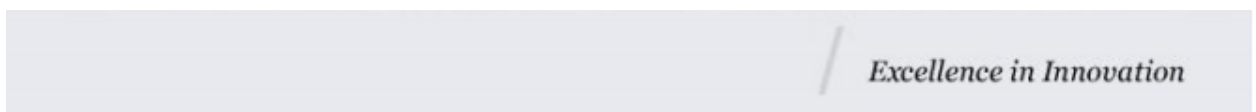
The team at Funk Engineering loves nothing more than working with bright people.

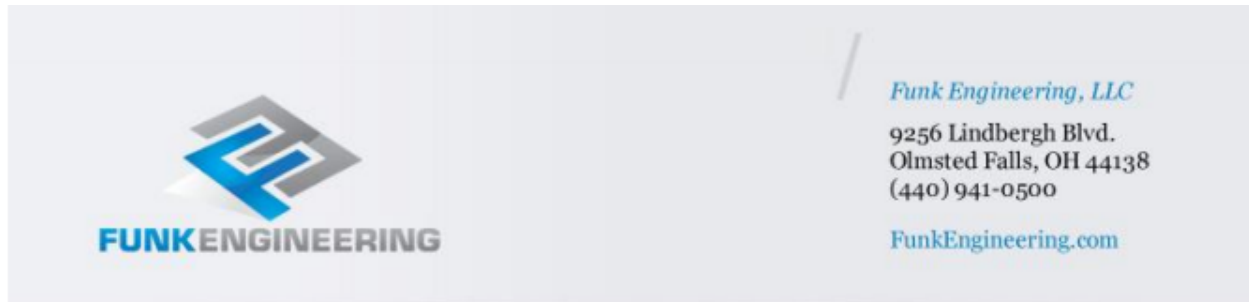
On a recent occasion, they had the chance to collaborate on a bright idea.

The team from ImageMart, a Cleveland-based solutions provider in the printing, sign and custom graphic design industry, brought an idea to the Funk Engineering team on how to create a different kind of sign using UV LEDs. The ImageMart team put together an initial concept from a UV flashlight and a coating that responded to that type of light wavelength. The effect of ultraviolet light coupled with visible light created an eye-catching effect.



What started as a concept and parts purchased from a local Home Depot came to life. The Funk Engineering team selected the LEDs and designed a board to accept them. They had custom boards fabricated and then populated them with the LEDs. They also created a control box that would allow both light styles to be dimmed in and out alternatively or at the same time. Additionally, a power supply was included for the entire set up.





Finally, because the dimming of the LEDs needed to be done digitally, Funk Engineering designed a basic software program that can be modified and uploaded onto an Arduino microprocessor, which is contained in the control box. This program allowed custom lighting and dimming profiles to be created using a computer, and then they were uploaded to the microcontroller to run the program independently.

The end result was a successful prototype - and a successful partnership.

"The engineers at Funk Engineering are helpful, personable and spent a fair amount of time working with us," said Joe Bruzas, owner of ImageMart. "Their effort, coupled with their knowledge of electrical and software engineering, created an environment that allowed for a fruitful collaboration - and we would use them again when the opportunity arises."

The sentiment of collaboration was echoed by the team at Funk Engineering. "We loved and appreciated the opportunity to work with a local company to bring an idea to life," said Justin Funk, the president of Funk Engineering.

To learn more about ImageMart Inc., you can visit www.myimagemart.com or call (216) 486-7518.

Funk Engineering is a full-service engineering consulting firm headquartered in Cleveland, Ohio. Funk Engineering specializes in the cradle-to-grave development and design of products and the corresponding testing required by those projects. You can learn more at www.funkengineering.com.

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