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THE CONFLUENCE OF DESIGN & TECHNOLOGY

A partnership to transform the wardrobes of India



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INSIDE :

ir FOCUS : TECHNOLOGY PLUS DESIGN | ir PEOPLE : AR. AMAN AGGARWAL | AR. RAHUL BANSAL

"Design is the fundamental soul of a man-made creation that ends up expressing itself in successive outer layers of the product or service."

STEVE JOBS



LIGHTING

unobtrusive but significant contributors to any space, interiors or exterior, lighting and lighting technologies have always been on the cutting edge of technological advancement

The function of a light

has moved beyond the obvious to the sphere of convenience and being IoT enabled to multi-task, much like the people who use these products. Ar. Kapil Surlakar, Design Director, Light@Work, Goa etc puts it into perspective. "A major part of my design practice is in the domain of architectural lighting design. That being chiefly a technology-driven area of design, practically the whole practice is impacted by technology, in a limited sense. What however makes the design work successfully is the human ability to discern the appropriate use of the relevant technology to achieve the design goals which are predominantly related to human comfort and well being or the well being of other living organisms for whom the space is designed. Therefore, technology is today an omnipresent tool that facilitates the objectives of design as envisaged by the designer, whose role is to be the educated interface between the client and the technology."



Ar. Kapil Surlakar

Lighting can make a project and give it an added dimension.



Aryaman Jain

Designers ILDL have used technology to create the overall lighting scheme at the Urban Oasis project, Gurugram, by architects Transform Design focusing on the richness of colors through the layering of lights. Aryaman Jain, CEO, Innovative Lighting Designs Limited (ILDL), New Delhi says, "Ambient, task and accent lighting create focal points and enhance the art pieces, using luminaires Muro and Blindspot by Orluna. The luminaires by Orluna are also used for general lighting of the space and to create beautiful wall wash effects."

Thanks to the IoT, robotics and extreme automation, end users are able to remotely regulate their lighting fixtures using smart gadgets and technology. Chromatography is used to add dimension to spa and wellness spaces while LED technology is used to regulate and support sleep patterns moving lighting firmly into the wellness domain.

Sustainability and eco-awareness have driven newer technologies moving the world towards the more environmentally friendly OLED or Organic Light Emitting Diode technology which consumes 80% less energy. Going wireless has also impacted the lighting industry which has adopted wireless as well as radio-frequency based technology where everything is controlled without cable connectivity.

LiFi or the use of indoor LED luminaires to create a light communication system transforms indoor spaces into efficient places where data can be transformed using the available data space.



taj taal kutir | light and beyond, mumbai

sans souci lighting llc | dubai





taj lakefront | light@work, goa



Jiri Krisica

Smart lighting makes life easier and more convenient. Jiri Krisica, Head of Design, Sans Souci, Prague says, "Above all it can improve our health. With smart lighting, we can change the intensity during the day, and the chromaticity and temperature of the light. The most advanced systems can even change the light wavelength." Changing wavelengths allow for variation in color to optimize functionality. For instance, a cooler light with high color index and CRI (Ra) 95 is useful to observe produce while cooking while a warmer light helps create the right ambience for dining. Jiri Krisica adds, "Smart lighting (which is voice controlled as well) can influence wellness, for instance, the warmth of light can adjust to one's body functions at different times during the day. Smart light copies the natural cycle of light and does not include too much UV light. And once the day comes to an end, the blue light is limited to ensure a good night's sleep."

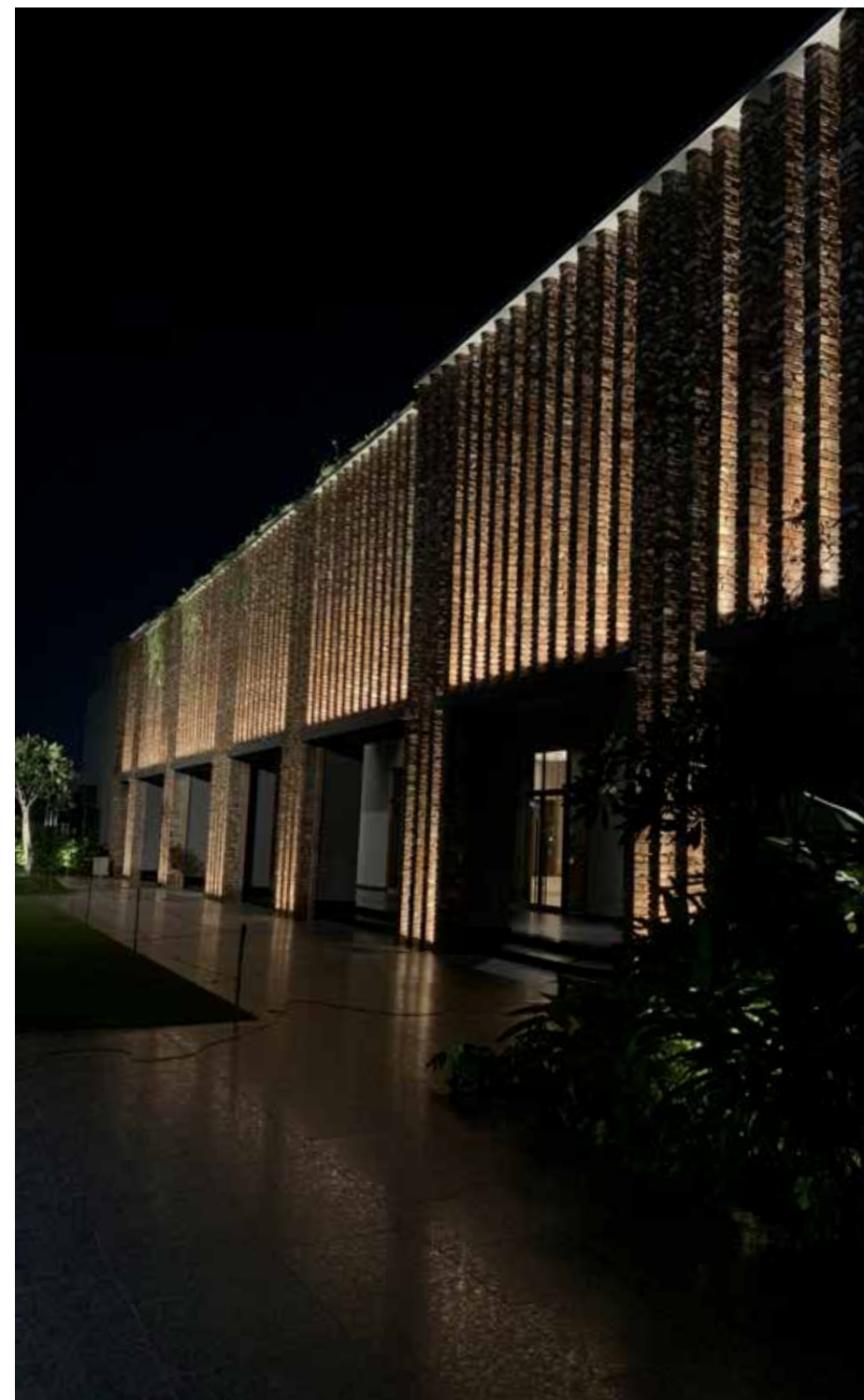
Hari Kara, Founder Designer, Bhilight, Pune explains how technology is changing lighting design while turning traditional living spaces into high-tech homes. He says, "Today we have smart products that adapt and function according to our behavioral patterns and the surroundings. This is possible because of advancements in sensor technology, connectivity among devices, data processing and AI. Especially in the lighting industry, this is the trend. We have IoT products that are smart, to control various parameters of lighting"



Hari Kara



md apartment | studio saransh, ahmedabad



taj taal kutir | light and beyond, mumbai

dlf camellias apartment | innovative lighting designs ltd., new delhi



depending on the control and also automatically adapt to the environment."

Explaining how their own products, which are 3D printed work, he says, "At Bhilight, we have a varied portfolio of designer lights (pendants, table lamps, floor lamps and wall lamps). Our products are made by advanced digital fabrication techniques of 3D printing. We use computer-aided design to design our products in digital medium, and these digital models are fed to the 3D printing machine."

The fact of being energy-efficient adds to their eco-friendly coefficient. Hari Kara explains, "Digital design and fabrication saves greatly on material and energy consumption. Firstly, there's no tool development/tooling required to prototype or make the product. Next, the energy consumption during 3D printing itself is very little. Further, since 3D printing can be utilized to be a made-to-order process, we keep very low inventory. It is estimated that by taking this approach of 3D printed lighting, carbon emissions are reduced by around 70-75% vis-à-vis conventional methods. Also, I'd like to mention that the material used for our lampshades is bioplastic which is sourced from corn (a renewable resource)."



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