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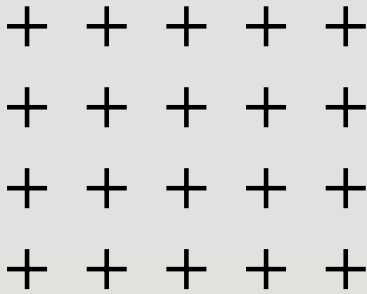
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DESIGNING TOMORROW:

THE TECH-DRIVEN
AESTHETIC



ARCHITECTS AS INNOVATORS: EMBRACING TECHNOLOGY FOR A BETTER FUTURE



**Sahir Choudhary,
Sr. Architect and COO,
Habitat Architects**

“The architectural landscape is evolving rapidly, driven by the power of technology. This series explores how architects are using cutting-edge tools and practices to shape the future of the built environment. From fostering immersive design experiences to optimizing sustainability, technology is becoming an essential partner in creating buildings that are not just functional, but innovative, user-centric, and environmentally responsible.”

Can you share examples of projects where technology played a significant role in shaping the design process and outcome?

One of the projects that resonates deeply with my personal experience is a Pharma Research Centre in the NCR, where I could blend technology and architecture seamlessly in our work. This project is a testament to how computational design and simulation can drastically enhance the architectural process and outcomes. By optimising the structure's form for natural light and airflow, we achieved energy efficiency and fostered a healthier work environment, illustrating the profound impact of technology on our design philosophy.





shared digital platform has streamlined the design process, minimised errors, and facilitated a level of integration and decision-making that was previously unattainable. Undoubtedly, BIM has become a cornerstone of our practice.

How do you balance the embrace of new technologies with the preservation of architectural heritage and cultural identity?

As we embrace new technologies, maintaining a balance between innovation and preservation of architectural heritage is critical. From my point of view, the importance of technology as not just a tool for creation but as a means to understand and preserve the cultural and historical significance of spaces ensures that our new designs resonate with their contextual identity.

How do you integrate digital tools and computational design into your architectural practice to enhance creativity and efficiency?

Embracing digital tools and computational design has significantly impacted our creative process, allowing for a level of exploration and efficiency that was previously unimaginable. This integration has not just enhanced our creative output but has also ensured that our designs are both innovative and executable.

How do you see emerging technologies such as artificial intelligence and machine learning impacting the future of architecture?

Looking forward, I envision artificial intelligence (AI) and machine learning as transformative forces in architecture. These technologies promise to automate routine tasks, optimise designs for both sustainability and user experience, and even predict future trends, setting the stage for a new era of architectural innovation.■



What are the key benefits and challenges of incorporating virtual reality and augmented reality into architectural visualisation?

Integrating virtual reality (VR) and augmented reality (AR) into our architectural visualisation process has been both rewarding and challenging. These technologies have unlocked new dimensions of immersive design. They enable design visualisation, immersive design reviews, and virtual walkthroughs, allowing us and our clients to experience spaces in unprecedented ways. Despite the challenges associated with the costs and specialised skills required, the benefits in terms of client engagement and design validation are indisputable.

How does technology influence your approach to sustainable design and green building practices?

Today, technology plays a significant role in driving sustainable design and green building practices. Tools for energy modelling and material analysis have empowered us to create buildings that reduce the ecological footprint and enhance their surroundings. This approach to design, grounded in technology, is crucial for the future of our planet.

In what ways has the use of Building Information Modeling (BIM) transformed the way you collaborate with clients, engineers, and other stakeholders?

The integration of Building Information Modeling (BIM) has revolutionised the way we collaborate during construction projects. Collaborating with clients, engineers, and other stakeholders on a

