How to pre-plan for a tech-savvy smart home

INTUITIVE integration

by THIAGO HARA

Today's homes are evolving into something far more dynamic than just a place to live, quickly becoming a personalized command centre blending comfort, security, entertainment and energy-efficiency.

Smart homes are the new standard in modern living and to truly harness the benefits of the technology, thoughtful planning needs to happen well before the build begins or a renovation takes shape.

Smart features can enhance nearly every aspect of how we interact with our homes, from managing energy use and securing our property, to relaxing and entertaining. The key is to design these elements to work together intuitively. Whether you're starting from scratch or upgrading an older space, early design decisions will determine how seamless and future-ready your system can be.

Tips for a truly smart home

1. Build a solid infrastructure

Think of your tech setup as your home's nervous system. Without the right wiring, your smart devices can't communicate effectively. A strong, centralized wiring plan that includes Cat6 or fiber-optic cables will ensure high-speed connectivity throughout the home. Even in our wireless world, the backbone of any smart home is still hardwired.

If you're doing a full remodel or new build, ask your contractor about structured wiring. This requires planning for a centralized tech hub, often in a utility room or closet, where all your cables, routers and network switches live. It's clean, organized and makes troubleshooting down the line much easier. Don't forget power. Smart devices need constant, reliable power. Outlets with USB ports, in-wall charging stations and hidden power sources (such as behind wall-mounted TVs) make a big difference in day-to-day convenience. Battery backups or integrated surge protection can also keep critical systems running smoothly during outages.

2. Plan zones and automation from the start

We're seeing more homeowners wanting automation by zone — lighting, HVAC, audio and even blinds that respond to how the space is used throughout the day. That means the planning needs to be specific. Where will you want lighting? A "good morning" setting that turns on your kitchen lights, starts the coffeemaker and opens the blinds? Or a "movie night" mode that dims the lights. Thinking through these scenarios early on lets a contractor and electrician place the right switches, sensors and speakers exactly where they need to be. Make sure your Wi-Fi is strong enough in each zone, which is key for consistent performance. Planning for zoned control now, also opens the door to advanced energy management down the line, especially useful in larger homes or multi-level layouts.

3. Collaborate early with a tech integrator

An often-made mistake is to bring in the smart home consultant after the walls have been finished. Don't wait. Collaborate early with a technology integrator who understands smart-home design. They can work with a designer and contractor to ensure lighting, audio, security and HVAC all function seamlessly together and look good doing it.

Good design and good tech should go hand-in-hand. When an electrician, contractor and tech team are in sync, it saves time, money and headaches later. You'll end up with a home that functions better and also feels more intuitive to live in.

4. Leave room to grow

Technology changes fast. What's cutting-edge today might be outdated in five years. Don't lock yourself into one brand or platform. Wire extra conduit behind walls in key areas such as a home office, entertainment centre or media room. That way, when the next big thing comes out, you can swap cables or upgrade without tearing into drywall.

Also, consider neutral platforms to give you flexibility and longevity, even if you switch ecosystems down the line, and think about voice control, which continues to evolve and integrate with everything from appliances to window shades.

5. Budget saving tip: Prioritize pre-wiring

If you're working within a tighter budget, focus first on getting the infrastructure in place, especially the wiring and conduit. It's far less expensive to do this during construction than after the walls are closed up. Even if you can't afford every smart device or system right away, pre-wiring gives you the flexibility to add components later without major demolition or costly rework. It's a smart, scalable way to build for the future without blowing your budget all at once.

Think long term

A smart home should make life easier, not more complicated. The best way to ensure that is by doing the up-front work. Think through how you live day-to-day, what you might need five years from now, and plan with flexibility in mind.

Smart living isn't just about cool gadgets; it's about comfort and efficiency. And when it's done right, it's one of the best investments you can make in your home. If you're building or remodelling, take time to plan. Your future self will thank you.

A clean, stylish design hides the wires controlling this smart TV room.

Thiago Hara is a licensed builder and the co-founder of One Group Design + Build, a full-service firm specializing in custom new builds and high-end renovations. From concept to completion, the team delivers tailored solutions focusing on craftsmanship and client experience. Serving Toronto, the GTA onegroupbuild.com | IG: @onegroupdesignbuild