



**Patrizio Marchesi - Home&Building Automation Engineering Studio**  
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## ***Home&Building Automation Studio***

The Engineering Studio mainly provides the following services:

- Technical consulting
- Electrical and electronics engineering for residential and commercial
  - Home & Building Automation
  - System Integration
  - Lighting Control Systems
  - Audio/Video distribution, audio/video multi-room systems, conference room & Entertainment Systems
  - Security and CCTV
  - LAN and structured cabling
  - Electrical installations - electrical panels
- Systems programming
- Supply of materials and components
- Training

The Studio activities cover the areas of residential, offices and business centers, shops/stores and showroom, hotels and accommodation facilities, sports centers and wellness centers.

### ***About us - Engineer Patrizio Marchesi CV***

Born in Venice, he graduated in Electronic Engineering in 1990 at the University of Padua - Italy. In the same year he also qualified to practice passing the Qualification Exam. He deals specifically with automation since 2005, carrying out consulting, design and programming of systems for the residential and commercial areas.

Member of the Association of Engineers of the province of Padua.

Certificated for the design of electrical and electronic systems for the italian laws.

### ***Mission***

Born on the basis of a large knowledge and experience in computer science, ICT, electrical and electronics science, the Studio aims to provide consultancy and design in automation and systems integration in the residential and commercial area (offices and business centers, shops/stores and showroom, hotels and accommodation facilities, sports centers and wellness centers).

In particular, we consider design as an essential step to build solutions and systems that are:

- acceding to the specific requirements of the Customer
- properly sized
- complying with the rules in force
- characterized by the lowest possible cost
- simple to use
- reliable over time and easily maintainable.

In order to achieve a real integration of systems, the structure of the Studio aims to act as a main contractor for the customer in managing all steps of the work. For this reason, over the years, the Studio has chosen its technical and operational partners on the basis of what they offered in terms of:

- functionality
- reliability
- technology



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- quality
- support.

About these topics, we wish to emphasize that the materials and components used in the proposed solutions are from world's leading manufactures (eg: Crestron, Lutron, Kaleidescape and others).

In these terms, the Studio can ensure full support for:

- identification of a completely customized solution
- complete design of the chosen solution (preliminary and final)
- construction supervision and overall coordination
- supply of materials and components
- installation and wiring
- configuration, programming and testing of components and systems.

### **Systems design**

The design is a step of work in which, starting from and including also any preliminary feasibility study, we define the system requirements and, through several steps, identify the constructive solution.

In particular, while designing a project we make use of calculations, drawings and graphic works holding strictly the compliance to the laws and technical standards.

Unfortunately, the design is an often underestimated or even missed step, perhaps solving the problems as they occur directly during the execution on site, with obvious impacts on the overall costs, the timing of projects, reliability and, of course, on the level of compliance to the standards and laws.

The Studio instead considers the design (and, very often, even the pre-planning or feasibility study) an essential step in the activity of realization of a system. The design is an essential step that, if well executed, allows to obtain optimal results in terms of:

- functionality
- reliability
- security (people and things)
- compliance with standards and laws
- cost containment and optimization.

### **Quality objectives**

The Studio is constantly looking for the quality of the results by adopting strategies of continuous improvement. Given the continued evolution of the market and technology, to be chosen and appreciated by customers means standing for efficiency, quality and performance.

In order to identify, propose and design the best solution for every need of the customers, it shall be deemed fundamental the know-how about the market and a higher technical competence. The update professional technical and about regulatory framework is therefore considered essential and is constant investment objective.

In particular, eng. Patrizio Marchesi has achieved several awards and certifications in the design and programming of systems and equipment.

### **Home & Building Automation**

In the area of Home & Building Automation, the Studio provides consulting, design and full support for:

- identification of a completely customized solution
- feasibility studies
- complete design of the chosen solution (preliminary and final)



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- electrical panel design for components of the automation systems
- construction supervision and overall coordination
- supply of materials and components
- installation and wiring
- configuration, programming, commissioning and testing of components and systems.

Main brands of components used in projects: *Crestron, Lutron*.

### **Audio/Video Systems**

The Studio provides consulting and design about audio-video systems in the residential (i.e.: typically for Home-Cinema systems and multi-room distribution systems) and professional (business, education, stores and showroom, public, hotels, health clubs and sports centers) with solutions for conference rooms, video projection and distribution of audio-video on a multi-zone basis.

In these areas, the Studio can provide full support and services for:

- identification of a completely customized solution
- feasibility studies
- complete design of the chosen solution (preliminary and final)
- construction supervision and overall coordination
- supply of materials and components
- installation and wiring
- configuration, programming, commissioning and testing of components and systems.

Main brands of components used in the projects: *Crestron, Meridian, Linn, Naim, Denon, Kaleidescape, Integra, Imerge*.

### **Lighting Control Systems**

The Studio provides consulting and design of complete lighting control systems. The experience gained in the specific field and the components usually used in the systems enable the Studio to design systems that can support and manage all types of requirements, even the most complex, and offer the highest levels of quality and flexibility, thus providing full support for :

- identification of a completely customized solution
- feasibility studies
- complete design of the chosen solution (preliminary and final)
- electrical panel design for components of automation systems
- construction supervision and overall coordination
- supply of materials and components
- installation and wiring
- configuration, programming, commissioning and testing of components and systems.

The system designed by the Studio are fully integrated with the other coexisting subsystems (electrical and energy management systems, audio-video systems, access control systems, security systems, etc.) and they are feasible for all types of applications (residential, commercial, industrial).

Particular attention is paid to the role played by the shading solutions; if properly designed these allow you to get a lot of advantages (filtering natural light, containment of solar heat and glare, privacy management, etc..) as well as being always fully integrated with all other subsystems (i.e: audio-video). In addition, the specific shading systems used in projects (Lutron Sivoia QS) are extremely quiet (noise < 44dBA at 1m) so they can be operated without disturbing the surrounding activities.

Main brands of components used in the projects: *Lutron, Crestron*.



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## **System Integration**

System Integration means to permit the interaction and communication between subsystems and systems originally and apparently "not connected", creating a synergy that can offer you new innovative and sometimes very complex features, which would not be otherwise permitted.

Especially in the residential, the system integration must aim to respond to the recovery of experiential values related to the function of living in every context. In fact, people feel the need to create and modify the space in which they live according to their ergonomic and dimensional needs. Moreover, at the same time, they feel the need to characterize it so as to respond to their aesthetics desire and comfort perception.

The components of daily living, as mutable, require a dynamic response by the spatial context in which people live, in order to balance them and gain wellness. The management of the habitat is based on the possibility to intervene on multisensory variables. The ideal space for humans is characterized by dynamism. It lives of metamorphosis sensory and affective components, talks with changing patterns and adapts itself in real time to the state of mind of those who inhabit it. It communicates through the senses and the perception of images, lights, sounds, smells. It takes care of humans through chromotherapy, aromatherapy and music therapy.

The space becomes a container in which the light, suitably dimmed, describes the volumes and the widespread communication. The space is transformed from a static container of hardware to a software dimension made of light, sounds and emotions that change and configure as needed.

## **Electrical Systems**

The Studio provides consulting and design in the field of electrical products and systems, both for new installations or for simple conversions or adaptations of existing systems.

In these areas, the Studio handles every steps of the work, dealing with the design of electrical systems, the design and calculation of electrical panels, the drafting of bills of quantities and all other specific and required activities.

In these areas the Studio performs tasks related to:

- feasibility studies, preliminary designs and estimates
- executive design
- design of electrical panels and calculation of the temperature limits
- SPD surge protection design
- design for special environments (medical, at the risk of explosion and fire, public places, etc.).
- reports and Statements of Compliance
- supervision
- advice during installation
- start up and commissioning of the systems.

## **Systems Programming**

The Studio performs configuration and programming of systems and equipment, both new and existing, in the areas of Home&Building Automation, lighting control and audio/video distribution. In particular, the Studio is specialized in configuration and programming of Crestron and Lutron systems, for which we has achieved specific training certificates.

The programming activities are carried out taking into account all the best practices of software engineering, due to the twenty years experience and specific know-how of the engineer Patrizio Marchesi about software engineering and Information Technology, even on mission-critical systems.



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Over the years, the Studio has gained the respect and trust of many companies and installers who have entrusted to Studio the configuration and programming of the systems, knowing the importance of the quality of programming to achieve the system's effective operation and the customers' satisfaction.

In carrying out this type of activity, if required, the Studio is available to develop drivers and custom integration software for specific components (audio/video, HVAC equipment, control panels, etc.).

### **Information Technology**

The Studio, thanks to twenty years of specific experience of the engineer Patrizio Marchesi, provides consulting, design and training in Information Technology area. In particular, we intend to candidate for tasks such as:

- Systems Engineer (*Sun Solaris*, *Linux* distributions, *IBM MVS/XA* and *CICS*, *IBM DB2* and *Oracle*, *JEE* application server, *Apache HTTP Server*)
- Consultant/Designer and Developer on various platforms and languages (ie.: *Java*, *C*, *C++*)
- Teaching courses related to topics such as *Java* platform (*JSE* and *JEE*), frameworks, software engineering, programming and object-oriented design, *UML* modeling, software development methodologies.