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Mitsubishi Electric Turkey introduces e-F@ctory at Yıldız Technical University

YOUNG GENERATION MUST GET READY FOR THE NEW INDUSTRIAL PHASE

Mitsubishi Electric Turkey Factory Automation Systems Business Development Manager Tolga Bizel gave a lecture at the Automation Academy organized by Robotics and Automation Club which was founded in Yıldız Technical University 15 years ago. Informing students about e-F@ctory concept, Mitsubishi Electric's response to the new industrial phase, Bizel gave advice to the engineering students for their future business career.

The Automation Academy was held in Davutpaşa Campus at the conference hall of the Faculty of Electrical-Electronics, Yıldız Technical University on December 22 with the participation of students from control and automation engineering as well as faculties of electrical-electronics, mechanics and civil engineering. **Mitsubishi Electric Factory Automation Systems Business Development Manager Tolga Bizel** lectured the students at the academy to provide information about the future of factory automation and robot technologies. Tolga Bizel explained that Mitsubishi Electric Turkey prioritizes supporting universities in their efforts as he continued to make recommendations to the engineering students for their future business career.

"Machines will understand what goes on around them"

Describing the new industrial phase as a significant project to computerize the existing industry through high technology equipment although it has come to be known with different names, Bizel explained that Mitsubishi Electric Factory Automation Systems responds to this new phase with e-F@ctory, a.k.a. the digital factory technology of the future. Tolga Bizel explained that the process shall come to a point when machines are able to understand what goes on around them and communicate with one another via internet protocols and said: "IQ-R Automation Platform already pushes the limits of our imagination concerning this new phase as an automation strategy which was developed based on the global expertise and know-how of Mitsubishi Electric on manufacturing operations in order to pave the way for e-F@ctory concept".

“A faster, more controlled and high quality industrial phase”

Bizel underlined that Mitsubishi Electric gives priority to e-F@ctory concept and undertakes serious development projects to that end: “e-F@ctory platform presents digital factory products used for production phase of several industries including automotive, packaging, food and pharmaceutics as well as mechanical, electronic and software services together through the perspective of mechatronics. One of the most significant advantages Mitsubishi Electric provides is that it is capable of producing solutions covering all the processes inherent to factory automation.

“Mitsubishi Electric’s e-F@ctory accelerates manufacturing processes with its fast connection and short renewal periods and sets the ground for safe and continuous manufacturing processes by eliminating such risks as system crash or computer virus since the platform does not make use of computers. Energy measurement devices available in the system make it possible to see how much energy is used for manufacturing every single product which facilitates cost calculation. The system is monitored online so as to keep the manufacturing processes under control anywhere and anytime. Providing all kinds of details required during manufacturing processes, the system enables operators to detect faults with products and review the production line retrospectively to see if there were any problems with the relevant line.”

“Robots will be part of our daily lives”

Referring to the proliferation of use of robots in industrial processes in Turkey, Tolga Bizel told that robots assume critical roles in the manufacturing processes of factories thanks to the speed and other advantages they provide and they have already become a regular workforce in our modern world.

Robot technologies are so developed in Japan that they might even be at the final step of their life cycle. In that respect, Bizel told that robots which used to work generally independently until recently may turn into semi-humanoid robots which are capable of cooperating with human beings in the near future.

Bizel indicated that robot investments shall gain pace in Turkey in order to enable them to work with human beings before he went on to say that Turkey is quite open to new market opportunities owing to its geopolitical position and that shall mean focusing on manufacturing operations for meeting human needs in those markets such as detergents, tea, water, packaged foodstuff and supporting domestic products.

“We need to raise young professional to steer automation”

Bizel underlined that qualified workforce is essential for the industry so that it can continue to grow and develop: “Mitsubishi Electric Turkey Factory Automation Division attaches a great importance to raising people who will steer the future of automation technologies and makes significant efforts to that end. Our company provides all kinds of possible support to the Factory Automation and Robotics departments at engineering faculties in Turkish universities.

Lately, we signed a protocol with 9 Eylül University for establishing an Industrial Automation and Robot Technologies Training Centre. We founded an Industrial Automation and Robot Technologies Training Centre at Doğuş University (DOU) in collaboration with the university management. We granted a versatile robot to the Robot Training Centre at the Faculty of Sciences, Architecture and Engineering, Bursa Technical University. We will continue to make efforts to that end.”

Bizel told that Mitsubishi Electric Turkey contributes to foundation of robot training centres at universities so that the students may adapt to the emerging technologies of the age to create a difference that shall be preferred in the business world.

“Young generation must comprehend and interpret mechatronics concept”

Finally, Bizel gave advice to engineering students: “A number of professions including mechatronics, robotics, information technologies and auto-bionics will come to the fore based on the impact of the new industrial phase. “Mechatronics” was first in Japan only to be adopted rapidly all over the world. Young generation must comprehend and interpret this new approach which is comprised of various disciplines very well so as to meet the new expectations. It is essential to understand the complex nature of mechatronics and the high technologies it requires in order to get prepared for the new industrial phase.”