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In the course of Innovations and technologies how automation and robotics related to it? How can we recognize the relation and differences between Automation and Robotics. In our certain lives, does automation and robotics help us? What can be the benefits that we can get if we will use automation and robotics? These questions can obtain an answer if we really need automation and robotics in our lives and eligibly understand how these kinds of technologies may help us.

Automation and Robotics are two closely linked technologies. That has great contribution and impact to society and humanity. Automation is the development and use of technology to create and offer goods and services with the least amount of human involvement. The execution of automation methods, techniques, and procedures increase productivity, reliability, and numerous jobs that were previously carried out by humans, and/or speed. There are many industries that use automation, including manufacturing, transportation, utilities, defense, infrastructure, operations, and more recently, information technology. Automation comprises six (6) examples like Home-automation that uses a combination of hardware and software technologies that enable control and management over appliances and devices within a home. Network automation is process of automating the configuration, management and operations of a computer network. Office automation involves using computers and software to digitize, store, process and communicate most routine tasks and processes in a standard office. Automated website testing streamlines and standardizes website testing parameters for configuration changes that occur during the development phase. Data center automation enables the bulk of the data center operations to be performed by software programs. Includes automated system operations, also known as lights-out operations. Test automation software code goes through quality assurance (QA) testing automatically by scripts and other automation tools. Automation contains four (4) types that implies different areas of application, technologies used for implementation, and other aspects. First, Industrial Automation is the process of automating physical processes using physical robots and special control systems. Software Automation is using software to perform tasks people to do with computers. Robotic Process Automation (RPA) is a technology that allows software robots to use an application’s user interface (UI) to mimic human actions without modifying systems or requiring human intervention, and it has nothing to do with robotics. Intelligent Process Automation, or Intelligent Automation (IA), is a technology that automates the company’s business processes using RPA, BPM, analytics and artificial intelligence (usually machine learning).

Meanwhile, Robotics don’t need human interaction because he can do the work of humans on its own. It has the process of designing, creating and using robots to perform a certain task however, Automation is the process of using physical machines, computer software and other technologies to perform tasks that are usually done by humans.

Automation and robotics can increase production and plays a great role in technologies in terms of advancement. Therefore, it can lessen the works of mankind. And makes life more efficient and less stressful.