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## The Engineering World: What is next?

Manuel Felipe Vásquez Castro, Liceo Bilingüe de Naranjo, Naranjo

When we listen to the word “engineering” we think of numbers and graphs that are out of this world, but we don’t realize that engineering is surrounding us, it is a key part in our lives that we barely know about, some of us don’t even know it is everywhere. Engineering may be described as the application of principles of various science fields to design, manufacture, maintain and improve materials, systems, machines, processes and others, with the main objective of benefiting society.

Engineering has been changing our world for centuries. The term “engineering” dates back to the year 1325; however, fundamentals of what we now call engineering were applied even centuries before Christ. Engineering has been modeling this world, from the creation of small and primitive inventions like the leveler, the pulley and the wheel; to world-changing inventions like the well-known steam engine during the industrial revolution, the telephone, the diesel engine and the telegraph as well.

Engineering is a wide discipline which can’t be referred as one. As in the case of science, engineering is divided into sub-disciplines and the list grows over the years. Most of these sub-disciplines take part in our lives though many of us do not know.

Engineering’s main purpose is benefiting society; it contributes in many different areas such as medical, technological and spatial craft. The medical area has been probably one of the most benefited by the application of many engineering. We can emphasize the contributions of chemical engineering, which is linked with molecular and tissue engineering. With the help of chemical engineering more accurate and less damaging drugs have been developed, allowing the treatment for many diseases. It has also helped in the development of biomaterials that are placed in our body for enhancing our health condition. Electrical and mechanical engineering can be

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nowadays being used for neurological treatment and the manufacturing of biomedical devices respectively.

The area of technological devices has also been benefited by the contributions of electronic engineering in the development of more powerful microprocessors, and by materials engineering in the improvement of the materials used for making different electronic devices, something that continues being of great importance today.

In the field of space tech, engineering has been key: from the first human traveling to the moon in 1969, the creation of an International Space Station in 1998, to the creation of the Mars Science Laboratory (Curiosity) in 2012. All these have been accomplished with the help of many types of engineering.

Scientists are looking forward to improving each of these areas, with the aid of engineering. Medicine is using state-of-the-art tech to create nanobots to destroy cancer cells, the technological area is hoping for foldable electronic devices, and the spatial field counts with the ambitious project of setting a human colony in Mars, among others. Engineering has been running this world for centuries by making possible what was once unbelievable. We can't even imagine what is next.

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