

Engineering: The Protagonist of Revolution



Mariel Solis Hernández - CCC Pérez Zeledón, San Isidro del General

Since engineering started to be developed and with the pass of time, it has changed the global conception of living quality and mental capacity in this world.

What at the beginning was a very simple definition today is composed of a lot of other concepts. Altogether they make engineering a complex field of study related specially to physics, natural sciences and economy. If just talking about engineering is a difficult task, becoming an engineer is far more intricate, showing the great complexity this field has reached from the past to now.

An important fact to consider about engineering is the widely ranging workspace it has; it has to do with almost every aspect of human existence. Engineering goes from a monumental construction structure to nano carbon tubes. In fact, its surprising versatility of acting between the worlds of nanotechnology and macro life is its real essence, its most outstanding characteristic.

Today people are deeply accustomed to the big-little devices that engineering has modified from the ancient living conditions to this modern age of comfort. They do not think about how things happened or how they were made possible; processes occurred to make our life style better. However, humans do not even value miracles such as health advances or communication technology achievements because at present we are really familiar with them.

We should see engineers as historic beings who, with their job, have modified the course of events; nevertheless, there is no real awareness of all the implications of that fact in our daily life. Engineering has been the great protagonist of, for example, the industrial, technological and urban revolutions and others that have changed the world's old schemes and generated the conditions we hold nowadays.

XIV Certamen Nacional de Ensayo Científico, 2013

Despite the evidence, it is necessary to emphasize that in the work of any engineer with any specialization from micro to macro, no matter the size, this work has exercised its function in generating progress. That, attached to other inventions, denotes the great transformation in vogue that engineering has immersed us in since ancient times.

In the midst of all this, the most magnificent aspect of engineering is the magical character it encloses. It has accompanied man on his passionate pursuit of knowledge and improvement, challenging nature forces while making projects and ideas come true, materialize in front of humanity's eyes for the construction of a better world. Inventors have often surprised themselves when they have dared to the extraordinary, discovering that their dreams can be fulfilled and feeling pleased with the power of their imagination, which in the end is engineer's best virtue and the motor that moves the world's ongoing transformation beyond today's known technological boundaries.

Más ensayos ganadores en: <http://www.cientec.or.cr/articulos/ganadores-xiv-certamen-nacional-de-ensayo-cientifico-2013>