

5504640086

Arpapat Noonpukdee

Albert Einstein

1150 words

When considering about the most intelligent person in the world, it is almost always true that the name, “Albert Einstein,” will generally pop up in anyone’s mind. However, although there is no prove that he actually is the smartest individual that has ever existed, this issue is not as important as to what he had discovered and experimented. Einstein is a brilliant physicist, who views the world from alternative perspectives. He was the one who could turn what he had perceived in his everyday life into an equation. “ $E=mc^2$,” which is the law that portrays how mass and energy are linked to one another, is just one of his famous formulas that contribute to the phenomenal development of physics. Though Einstein did not literally invent any devices or technologies,² his innovations are still significant as they are the foundation to the understandings of the universe. Ultimately, Albert Einstein is the founder of numerous scientific theories, which directly lead to the discovery of the some of the world’s greatest technologies.

Albert Einstein’s most legendary concept, the Theory of Relativity, has led to the formation of the first atomic bomb.³ The earliest atomic bomb, known as “Little Boy” was launched by the United States during the World War II on August 6, 1945 in

¹ Einstein, Albert. *Albert Einstein Out of My Later Years*. 1996. p.47.

² “Albert Einstein Inventions.” *Invention Pop!*. 17 Sept. 2012.
<http://www.inventionpop.com/AlbertEinsteinInventions.html>

³ Rubin, Julian. “What Did Albert Einstein Invent?.” *Julian Trubin*. 17 Sept. 2012.
<<http://www.juliantrubin.com/einsteininvent.html>>

Hiroshima, Japan. The disaster killed as and injured as much as 140,000 people. Then, three days later, another destructive bomb that led to the loss of 60,000 citizens was dropped on Nagasaki, Japan.⁴ Eventually, the victory of the World War II went to the Americans and the Allies.⁵ After this incident occurred, the world was shocked by this extremely destructive invention; the person who lies behind this is not anyone else but Albert Einstein. Even though Einstein was not the one who actually invented the atomic bomb, his famous theory was the main cause of the formation of the nuclear bomb. The Relativity Theory states that mass and energy are interchangeably linked to one another.⁶ Thus, a tiny portion of mass could produce an infinite amount of energy. Therefore, whenever the uranium atom breaks down, the nucleus of the atom would turn into a nuclear chain, releasing a huge amount of radium element, eventually resulting in the production of the vast amounts of energy. At first, nobody knew that Einstein's Relativity Theory was able to be adapted into a nuclear bomb until he wrote a letter to Franklin D. Roosevelt, the president of America during the World War II, warning him that the Germans are working on producing this vicious weapon. Not only that, but Einstein also sparked the president on how useful his theory could be used to construct a nuclear bomb. After that, without any Einstein's contribution, the first atomic bomb eventually became tangible and was being used to destroy an abundant amount of people during the war.⁷ The nuclear weapon was the biggest step to the new era of the creation of mankind.

⁴ Duffy, Richard V. "Science Hero: Albert Einstein." *My Hero*. 17 Sept. 2012.
<<http://myhero.com/go/hero.asp?hero=einstein>>

⁵ Wikipedia Contributors. "World War II." *Wikipedia, The Free Encyclopedia*. 17 Sept. 2012.
<http://en.wikipedia.org/wiki/World_War_II>

⁶ Rubin, Julian. "What Did Albert Einstein Invent?." *Julian Trubin*. 17 Sept. 2012.
<<http://www.juliantrubin.com/einsteininvent.html>>

⁷ Duffy, Richard V. "Science Hero: Albert Einstein." *My Hero*. 17 Sept. 2012.
<<http://myhero.com/go/hero.asp?hero=einstein>>

Without the existence of the atomic bomb, our world might not be as it is today. The reason is that if Americans have not invented the atomic bomb, the victory might have gone to the Japanese and the Germans instead. Then the most powerful countries in the world today might be Japan or German rather than The United States, which right now, is the most powerful country in the world. As a result, the lifestyle and the thoughts of the people today would have been altered if America is not the country with the most power. Moreover, people will never know how the microscopic particles in the universe such as atoms did actually exist and can also have such great impact on the humanities.

Albert Einstein's discovery of the photoelectric effect has paved the way for the invention of today's electrical devices.⁸ In 1905, Einstein suggested an idea that when a light is shone on the surface of a metal, the electrons would be emitted in relative to the frequency and strength of light. This theory is known as the photoelectric effect, which also awarded him the Nobel Prize in physics during the year 1921.⁹ Significantly, this theory is the foundation of all the equipments that changed light into electricity such as digital cameras, or even the solar cells.¹⁰ These electrical devices we use today are all beneficial to human being. While these equipments help make our lives easier and more comfortable, there are also some dark sides to them. Although human being can do things faster with these devices, they also cause them to be more impetuous and more intolerant. They would also have fewer thoughts while doing something, resulting in a decrease in the quality of each activity they are doing. Furthermore, since these devices help ease up

⁸ "Einstein Legacy." *Einstein Today*. 17 Sept. 2012. <http://www.einsteinjahr.de/page_37.html>

⁹ Rubin, Julian. "What Did Albert Einstein Invent?." *Julian Trubin*. 17 Sept. 2012. <<http://www.juliantrubin.com/einsteininvent.html>>

¹⁰ "Einstein Legacy." *Einstein Today*. 17 Sept. 2012. <http://www.einsteinjahr.de/page_37.html>

communication, people nowadays would see their family or anyone who is near them with less value. Therefore, the photoelectric effect theory of Albert Einstein does have a huge impact on the lifestyle and the thoughts of the present days' individuals.

Nowadays, Albert Einstein's theories are still being recognized by the scientists as the inspirations of the future inventions. For instance, the quantum computers, which are the computers that function by using the quantum theory, are one of the inventions that was inspired by the theories of Albert Einstein.¹¹ This kind of computer is a very powerful computer that could calculate and gather information extremely faster than the computer we are using today. With this, it could benefit all kinds of areas in the society; from the entertainment media to the weather forecast. Quantum computers might be the next generation of computers that could affect the lifestyle of the people in the future.¹²

In conclusion, Albert Einstein's significant theories such as the Relativity Theory or the Photoelectric Effect theory had influenced numerous scientists from generation to generation on the inventions of all kinds of technological devices. Furthermore, these devices such as the atomic bomb, the electrical equipments we use today, or even the device that might be discovered in the future all have an impact on the lifestyle and the thoughts of the human being. Without the existence of these so called Einstein's inspired devices, the world might not be like as it is today.

¹¹ "Einstein Legacy." *Einstein Today*. 17 Sept. 2012. <http://www.einsteinjahr.de/page_37.html>

¹² Eaton, Kit. "IBM's Quantum Computers Could Change The World (Mostly In Very Good Ways)." *Fast Company*. 17 Sept. 2012. <<http://www.fastcompany.com/1821378/ibms-quantum-computers-could-change-world-mostly-very-good-ways>>

