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## **NEW TECHNOLOGIES IN OUR LIFE**

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*Стаття присвячена останнім новинам зі світу новітніх технологій та роботехніки, а саме 3D-друк, флайборд, нові способи зробити напівсинтетичні органи або Нео-органи, графен – матеріал майбутнього, дрони та т.д.*

3D printing is becoming quite popular nowadays. 3D printer is unlike of the common printers. On it the object is printed by three dimensions and a 3D model is built up layer by layer. You can buy the cheapest one for around \$100 and print whatever you want using different materials.

A Flyboard is a type of water jetpack which flies air and water to perform a sport known as flyboarding. Water is forced under pressure to a pair of boots which provide thrust for the rider to fly up to 15m in the air. It was invented only 3 years ago so it's not very popular, but still you can find a few flyboards even in Kyiv.

Research is being done on developing new ways to make semi-synthetic organs or Neo-organs that will be useful in the treatment of patients requiring transplants or reconstructive surgery. Currently, hospitals are using similar technology in producing skin, bone and other body parts. Scientists also created a synthetic hand and you could even feel the object you're touching with it.

Graphene is also known as the material of future. It has many extraordinary properties. It is about 100 times stronger than the strongest steel. It conducts heat and electricity efficiently and is nearly transparent. Its discovery resulted in the two winning the Nobel Prize in Physics in 2010 for groundbreaking experiments. Graphene could open the way for bionic devices that could be connected directly to your neurons. So people with spinal injuries, for example, could re-learn how to use their limbs.

Google wants to use drones to help people during the rescue operations. Drones can deliver medics and other essential items in places where infrastructure is underdeveloped. It can be an insulin injection, first aid kit or anything else. Of course, the drones will not be able to completely replace the medical service employees, but due to the fast delivery it can save a lot of lives.

Such companies as Amazon, Google and DHL announced that they're planning to use drones for goods delivery. The aircraft can carry approximately three kilos of goods.

However, many problems should be resolved before launch. They need to improve the autopilot system to avoid buildings and other objects, extend the battery life and realize the interaction between drones and other air vehicles. To solve this, Amazon offered to divide the airspace into different zones. The first area up to 61m above ground level will relate to an area with low flight speed for civil drones. At an altitude of up to 122m will fly commercial speed drones. The remaining space will be closed for the drones, as there will be flying helicopters and other air vehicles. This can take up to 3 more years to make the drone delivery commercial.