

## Nanoelectronics and hacking

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In the digital era technology is advancing in seconds, due to globalization and data sharing among developers and researchers thoroughly via the internet. Furthermore, the convergence of Biotechnology and nanotechnology has advanced the field of medicines, various treatments, cosmetics and even our food. Nanotechnology paves the way for the development of effective and efficient treatments. Today's medical care has advanced to treat disease at the genomics and proteomics levels to root up the disease, but this is not limited to biological terms like genes and proteins. In this decade robotics has evolved extraordinarily. Nanoelectronics, which uses the technology of robotics, artificial intelligence and quantum mechanics has brought us Nano chips that can be inserted inside human beings. Such Nanochips are inserted inside the brain containing electrodes, controlling the movements of the body like hand movements. Several companies are extensively engaged in developing brain-machine interface, kernel, Thync, Nuralink, Synchron are some major companies related to this field. Although there is not any such case so far, these computational chips are prone to hacking (Here, we may have to modify the definition of biohacking), animal cyborgs are already developed enough for showing up. These technologies are still in the developing stage as a lot of ethical issues are involved in them and still waiting for approval from regulatory bodies like FDA. Even at stand by these technologies are leading the potential to change the world either for good or bad.

*Keywords: Nanoelectronics, cyborg, Nano chips, quantum mechanics, biohacking, ethical issues*

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