**Mind-Controlled Prosthetic Arm**

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Integrating the electrical activities of the brain with electro-mechanical systems to develop mind-machines has become one of the most active research topics in the Human-Robot Interaction (HRI) and Robotics communities. In this research, we designed and implemented a mind-controlled prosthetic arm. A wireless Electroencephalography (EEG) system, EMOTIV brainwear is deployed to read the human brain waves. A Brain-Computer Interface (BCI) is used to recognize trained thoughts and convert them to neurosignals, which are processed and used to control a robotic arm. This research can assist people with hand disabilities and arm amputations to control their prosthetic arm by their thoughts. It enhances their interactive experiences, and improves their engagement with their surroundings*.*