

ENTECH

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**CAREER
PLANNING
COMPANION
FOR**

**GRADE 8 TO 12
STUDENTS**



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About the Magazine

ENTECH is a magazine that comes out every month. It is for teenagers between the ages of 13 and 18. The magazine focuses on Science, Technology, Engineering, and Mathematics (STEM). It helps teens find out what they are interested in and what they love. ENTECH shows them how to turn their passion into a career. The magazine has short articles. These are written by professionals, innovators, researchers, and teachers.

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From the desk of Editor

Ethical Considerations in Memory Implants

As technology continues to advance at an unprecedented rate, we are faced with the question of whether we are ready for a world where nothing is forgotten. With the development of memory implants, the possibility of our minds living forever becomes a very real possibility. But with this potential for immortality comes a host of ethical considerations that must be carefully examined.

Memory implants, also known as brain-computer interfaces, are devices that can be implanted into the brain to enhance or replace certain functions. They work by connecting the brain directly to a computer, allowing for the transfer of information and data between the two.

While this technology is still in its early stages, researchers have already made significant advancements. In 2019, scientists were able to successfully implant memories into mice using optogenetics, a technique that uses light to control cells in living tissue. This breakthrough has opened up endless possibilities for memory implants in humans.

The potential benefits of memory implants are vast and could greatly improve our quality of life. For individuals suffering from memory loss due to conditions such as Alzheimer's or traumatic brain injuries, these implants could help restore lost memories and improve cognitive function. Additionally, memory implants could also be used to enhance our abilities. Imagine being able to instantly learn new skills or languages by simply downloading the information directly into your brain.

While the potential benefits of memory implants are exciting, there are also significant ethical considerations that must be addressed. One of the main concerns is the issue of consent. Will individuals be fully aware of the risks and potential consequences before undergoing a memory implant procedure? Will they have control over what memories are implanted and which ones are removed?

There is also the question of who will have access to this technology. Will it only be available to those who can afford it, creating a further divide between the wealthy and the rest of society? And what about privacy? With direct access to our thoughts and memories, how can we ensure that our personal information is not being exploited?

Charudatta Pathak

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31
How it is Made

33
Science News

34
Tech News

3
EDITOR'S NOTE

7
KEDARESHWAR GORANALE
UV ALERT: DIY WEARABLE UV RADIATION
MONITORING SYSTEM

10
A. AFRA ARAH AND DR SYED A. HASHIM
COMBUSTION OF ALUMINIUM PARTICLES:
A SHORT REVIEW

14
NAGRAJ
POLLUTION: ITS TYPES, EFFECTS AND REMEDIATION

19
ATIL ARORA AND AYUSH GUPTA
MECHANICAL ENGINEERING EXPLAINED
PART III: CONTRIBUTION OF
MECHANICAL ENGINEERS

22
MOHINI MODAK
EMPOWERING TEENS THROUGH DIGITAL DETOX

26
DR. GIRISH S BARPANDE
WHAT MAKES CARBON THE BUILDING BLOCK OF LIFE
ON EARTH?

29
DR. SUNITA SINGH
EMBRACING EARTH, ERASING PLASTICS:
OUR 2024 PLEDGE FOR THE PLANET

31
SOVEMA GROUP
THE LEAD ACID BATTERY - PART 7
PLATE PASTING

KEDARESHWAR GORANALE

UV ALERT: DIY WEARABLE UV RADIATION MONITORING SYSTEM

