XR x BCI

One of the problems faced in extended reality (XR - The term for VR, AR, and MR) is the input. The method of displaying mixed reality (MR) on a user device wirelessly connected to the user's Brain-Computer Interface (BCI), would allow the user to input commands just by thinking. The BCI will transmit your brainwaves into actions onto the display of the XR device, removing the need to tap the air with our hands. This would free up your hands for any tasks you're currently doing. The method would start in the user's brain, the BCI would read the signals and translate them into specific actions relating to the augmented display. For example, a user riding a bike on a trail with their arms occupied could use their BCI to activate an Artificial Intelligence (AI) navigation program to display the pathway back home, onto the trail, within seconds. In a world where anybody can upload their own experiences to anyone worldwide, It's quite evident that we should move towards full BCI Implementation. Starting with people with any paralyzing injuries, and moving to the population. The ability to control your display by brainwaves, eye tracking, and AI would be a huge evolution for humanity.

Virtual Reality (VR) will have a huge horizontal impact across all industries. However, there is also a massive untapped market for Augmented Reality (AR). With the upcoming Al Automation, job loss, and likely a Universal Basic Income, an exponential amount of people will desire a way to enjoyably spend their time. This opens the opportunity of creating a worldwide platform where anyone can upload their experiences for the goal of skill sharing, for example, Gordan Ramsey could create Augmented Reality cooking experiences for anyone to view. With the use of advanced Al, the XR Experience could adapt to each user as well as assist the user in tasks the Al is superior in. This will eventually grow into an exponential amount of possibilities, including replacing the education system, allowing people to try new things at low-risk, and giving people the ability to get cheap expert-level education anywhere in the world.

Because external hardware will eventually reach physical limits, moving towards brain technology is inevitable. With a BCI connected the possibilities are far greater, as well as the sensory inputs and outputs being directly from the brain, happening instantly. With the implementation of AI and research of neuroscience, Algorithms will likely be able to understand your thoughts and translate them into the exact action you wanted. As well as AI being used to eventually download data into the brain, turning this skill-sharing platform into a massive hub of human information. With time we should be able to remove all hardware on the human body and move towards full BCI only. Using a BCI to inject images and sounds as if we saw or heard them on our own. Until we can use BCIs to achieve a full dive XR, Collaboration of BCI and XR Technologies will further human capabilities.