

Cyberaugmentation Executive Summary

Cyberaugmentation (cyberaug; CA) is the process of augmentation through technological means. Recent advances in technology, such as nanotechnology, materials science and neuroscience had allowed for development in CA, such as pacemaker implants, and artificial hearts. With continuing research and advances in technology, what seemed like science-fiction before is becoming a reality; bionic limbs that allow dancers who lost their leg to dance again; neurochip have changed mice to be more competitive; bionic limbs are improving in performance and fidelity. CA is considered the next step for humanity many experts and public alike, where machine and human become one to complement each other to surpass the limitations of any one alone.

This project focuses on physical and cognitive CA. While we consider both existing and potential CA technology, we will particularly focus on the future techs, such as bionic limbs, neurochips and cybernetic implants. This is because there is an almost reckless disregard for ethics and possible implications in the research and development community. The ethics will be considered by investigating the benefits and drawbacks of cyberaugmentation.