

# Human Augmentation

Human enhancement can be defined as technology that can enhance our physical, cognitive, emotional and moral abilities. This technology serves a wide array of uses, from giving people their vision back to increasing the overall performance and possibilities of the human body.



## Types of Augmentations

- Senses (Auditory and Visual)
- Action (Prosthetic Limbs and Exoskeletons)
- Cognition (Memory Loss Treatment)

## Applications of Human Augmentation

### Neuralink

Neuralink is a project currently being worked on by the CEO of Tesla Motors, Elon Musk. This device will serve as a head implant connected directly to the brain. Plans for the Neuralink include Dementia and Alzheimer's treatments, as well as spinal cord injuries. Furthermore, it will allow users to connect straight to the Internet.



### Sarcos Guardian

This exoskeleton allows users to easily lift to 200 lb with no serious health risks. This type of technology is important in many fields that require heavy manual labor such as in construction. With this type of suit, workers will be able to easily transport heavy weights without running the risk of a back injury. Furthermore, it allows implementation of features such as fall prevention to help the user remain upright.



### Waverly Labs

Waverly Labs earbuds allow users to translate speech in real time. This facilitates communication between people and makes language barriers less of a problem. Furthermore, these ear buds boast the ability to translate 20 languages and over 40 dialects.



## FAU Courses

- CAP 5625 Foundations of AI
- CAP 6635 Artificial Intelligence
- CDA 6316 Embedded Systems