## The Past and Future Space Suits Summary

Throughout history Space has always been something that has intrigued the minds of mankind, Outer space otherwise known too many as the last frontier, is a landscape filled with unknown possibilities and planets. That haven't been Inhabited by human life, that may hold the answers to many of the problems that plague us on earth. One innovation that has made it possible for human beings to travel into Space safely through past decades has been the spacesuit, and innovation that many common folk overlook as a cool outfit that astronauts wear or as a Halloween costume that makes them feel like they're walking on the moon. The spacesuit like the spaceship has made it possible for people to land on planets other than earth, a feat that mankind has imagined doing for hundreds of years, understanding the universe one space exploration at a time to fully understand the role of planets in our universe.

Over the past 50 years of traveling into outer space The Space suit has played a major role in historical events that have altered history in a major way. To understand the importance of a space suit you'll first have to understand what a space suit is and how it helps aid One in space travel. Spacesuits are a piece of equipment designed to protect astronauts from a multitude of different dangers facing them when traveling into outer space. Some of these dangers, space suits are used to protect astronauts from are a lack oxygen in space to breathe while they are working in space, getting too hot or cold, the suits also keep astronauts from getting hurt by space dust, and it also protects the eyes of astronauts from bright sunlight and the radiation that is a result of the sun that may vary in outer space.

Since 1958 many different space suits have been developed By NASA to aid men and women who have traveled into space, with over 2,800 hours of spacewalk that have been conducted its safe to say suits have progressively gotten better. With suits such as the Sokol and Orlan being the most used type of space suit the United States tended to make spaces suits that were more innovative compared to their Russian counterparts that made suits that were much more minimalistic. But as time has gone on and space travel has become more common to spectators and Wealthy space tourist, the designs of today have become advanced. Over the past 50 years of new space suit designs, designers have continued to push the envelope with their designs and as seen in the article there's been plenty of designs that have made it into space adorned by some of the finest astronauts NASA has to offer.

Although the Space suit may be the most recognizable gadget when dealing with Space there are many operational requirements needed in order for it to function properly and protect

those who are inside of them, being that astronaut wear the suit inside and outside the spacecraft during launching, reentering, landing and connecting to a space station.. First, the design team must fully know how the space suit will be used for in order to create a functional suit that will enable the wearer to have maximum mobility in there arms, shoulders, feet, and hands to work while in space and mobility levels are different on different surfaces such as the Lunar and Mars surface. With Extravehicular Activity ranging from 6 to 8 hours suits accommodate the wearer by providing hydration and waste functions.

To fully comprehend and understand the uses of the Space suite you'll have to understand the components that make up this intricate piece of technology. Being that the space suit is a single occupant spacecraft it must conform to the wearer, essentially the suit and the life supports equipment the suit is made up off is called the extravehicular mobility unit. The surface of Space suits is made out of the expensive textiles sewn together airtight vessels used to keep oxygen flowing within the suit. Spacesuits consist of 3 major layers of protection which are the Bladder, the restraint, and the thermal and Micrometeoroid layer. Each layers performs a specific duty which is containing oxygen, providing the suit with structure, and protection from the environment. The first spacesuit was the Apollo space suit used on America's journey to the moon in 1968 on Apollo 7 and as the years progressed the suits got better.

As for the behind the scenes work of building and manufacture Spacesuits, it takes groups of specially skilled designers to bring these technological creations to life in a way that can function properly. In the construction of One suit design project managers, engineers and technicians come together in its constructions, many materials are used to construct parts of the suit ranging from body, glove arms and legs. Being that making suits for astronauts requires extreme dedication and precise calibration because of the extremities the suits will endure in the process of being in space, every part of the suits must be carefully calibrated for any mistakes to guarantee safety for astronauts or other space visitors. Calibrating a space suit properly is an intense job and over 100 of steps go into the final product to assure safety.

In conclusion the creation of Spacesuit has been single handedly the most important piece of equipment used in Space exploration throughout man exploration into the final frontier. Without it so many of the events that have taken place throughout history wouldn't have occurred and with that being said it is still widely overlooked. Every suit that is made, is done with a high level of precision that astronauts depend on in there space travels to protect them under extreme conditions. Maybe one day when space exploration is more widely accessible to regular people the world will appreciate the technology that goes into creating the space suit.