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How can we reduce the fatal impact of natural disasters on human life through rescue bracelet?

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Every year, a large number of people around the world lose their lives because of natural disasters. Nowadays, cities have become more vulnerable, because of urbanization and population growth. Iran is considered as one of ten accident-prone countries in the world due to its geographical and geological location. So for years, the strategies such as crisis management, education, architectural design and others have been considered to reduce the impact of natural disasters on the country. Furthermore, underground constructions cause the high subside problems about 36 cm every year. This issue increases the danger of any natural damages specially earthquakes in Tehran. To decline the damages caused by natural disasters, many products have been designed but the incidents are unpredictable. In addition, we tried to design a product which is easy to use for everyday activities; not just eminently suitable for any sort of natural disaster but also useful for other highly accidental situations. According to properties of the product, after searching we found some accessories which people use every day such as: watches, bracelets, rings, etc. The aim of this research is to minimize the damages of this kind of disaster by create innovating product which can reduces the damage in dangerous conditions or incidents. This paper proposes the bracelet which is daily usable to measure and inform the person's physical activities through intelligent electronic device during a day. The methodology of this research is based on Functional-analysis related products in these criteria. Though, we decided to design a product which can be easily carried and works with the notification systems, inform connected organizations and mobile's first aid devices about the condition of user. In fact, the bracelet works with the heart beat rate and helps to save time and accelerate assistance to find alive people.

Biography

Mahsa Ghanbari Borhan is currently studying Industrial design in University of Tehran. She finished her 12th degree in graphic design. She teaches painting and sketching techniques. Also, she is involved in product designs for children with disabilities. Because of her graphic background, she illustrates story books for children as well. Recently, she is teaching graphic workshops in Saba art school and is consulting part-time in a research conducted in her university.

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