

Team Name : The Insomniac Life Saver

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Abstract: (not more than 150 words)

When you **drown**, your lungs fill up with water, and the air sacs inside your lungs, acting like a sponge. This process causes your body to get denser than the surrounding water and sink to the bottom. If the person is brought to the surface of the swimming pool within 2-3 minutes of drowning, this safety idea helps in saving the life of people who have drowned. A mesh is placed at the bottom of the swimming pool which is fitted with weight sensitive sensors and optical sensors. The mesh is attached to the motors.

1. The body after drowning touches the mesh, the sensors sense the weight and the shape of the body and activate.
2. As soon as the sensors activate, the alarm will go ON alerting the other swimmers in the pool to evacuate the swimming pool and the mesh will automatically rise along with the body to the surface of the swimming pool.
3. Incase the sensors fail, the lifeguard who is watching the pool can manually activate the alarm and raise the net with the drowning person.

Introduction (not more than 200 words)

In 2015, there were an estimated 4.5 million **cases** of unintentional **drowning**. That year it resulted in 324,000 deaths making it the third leading cause of death from unintentional injuries after falls and motor vehicle collisions. Of these deaths, 56,000 were children less than five years old. Approximately 90% of drownings take place in freshwater (rivers, lakes and swimming pools) and 10% in seawater. To prevent such cases, the solution devised will be very helpful and might save the life of your loved ones.

Motivation (not more than 100 words)

Talking about motivation, I came up with this idea when an incident shook even the smallest bits in me. So, back in 2015, during the weekend my friend and I planned to go for swimming. My friend was not an affluent swimmer, rather he was just a rookie. Even me, I was a rookie too. So, my friend confident with his ability went to the deeper side of the pool and didn't return. He drowned. It all happened in front my eyes and I was unable to help him. I shouted to call the lifeguard, but till the lifeguard came and rescued my friend, it was too late. I lost my friend in my front of my eyes and this is something which I won't be able to forget in my life. I was really shook by this traumatic event. As a matter of fact, I had went into mild

depression, but thanks to the Almighty I recovered from the depression because of my parents care. After this even, I was determined as to save the lives of others so that their lived ones don't have to go through the phases which I went through. I surfed the internet days and night, but I was unsuccessful. But then, from a simple thing I got the idea for the life saving net. We know that to prevent objects from getting in the pool we apply a plastic net on top of it. So why not use a similar net beneath the pool to save lives.

Methodology (block diagram, related figures etc)



Social Impact

The social impact this idea can have is immense. Imagine the amount of lives we would be able to save with this idea. People would no more be scared to swim in the pool. It will also give me immense satisfaction and pleasure to see people go into pool without any hesitation.

Market Survey

As of yet, there is no such idea available in the internet as this idea was completely and wholly developed from scratch by me. I feel like this idea has a great market value, because the owners of the swimming pools would love to have this safety device to reduce and gradually eradicate the loss of life in swimming pools.

