

Medical Assistance Droid



Team Name : **Team PHENOMS**
Institution Name : **Sri Sairam College of Engineering**
Sub Category Name : **Mental Health & Psychosocial Support**

An electro-mechanical robot is designed to assist the patients with cerebral palsy and mental retardation. Cerebral palsy is defined as “a group of permanent disorders of the development of movement and posture, causing activity limitations that are attributed to non-progressive disturbances that occurred in the developing fetal or infant brain”. The activities of these patients need to be continuously monitored to ensure their safety and comfort. Their facial and vocal expressions need to be assessed to provide needed support and help. Their dynamically swinging mood changes need to be evaluated and pacified. In this work, an Android based smart phone is deployed to monitor the above said activities and to take remedial actions in case of emergency. The designed system also guides the patients to walk in a predetermined path in and around their home. A multimedia player available in the mobile is used to play audio or video to pacify them in case of severity in their actions. The designed robot is fitted with an Android Mobile and Storage Container. Camera and microphone are always engaged to recognize the patient’s voice and facial expressions. This project also helps elderly people and pregnant ladies.

