



Abu Dhabi Polytechnic

Students' Graduation Project Abstract

Department:	EMET	Semester:	Spring-2022
Project Title:	Using Bio-signals to Control Assistive Device		
Supervisor:	Eng. Muhammad Amin Tily		

Abstract:

The bio signals can be used to control the actuators of any type. The actuators such as the motors can be controlled using the bio signals. The sensors are used to acquire the data from the neurons these data are then processed and used to control the wheelchair. The paralyzed patients are increasing day by day so for them we are designing the wheelchair that can be controlled using the bio signals. The system is then simulated and the multiple controllers are used for the fast processing of the system. The actuators like the motor speed as well as the direction is controlled. The results are proved using the simulations. The main working of our project to transform the already wheelchairs into the bio signals connected wheelchair. So that the patient can move by their own without any assistance. These will help to reduce the depression and other high risks of death in paralyzed patients.