

ABSTRACT

Stress is a kind of thing that can't be liberated from our daily live. Psychological activity in somebody will increase when someone has a stress. Physiological parameters which will changeover caused by stress are various, such as changing of heartbeat, eyes pupil, skin resistance and blood pressure.

Galvanic skin response, nowadays more popular called *Electrodermal Response* (EDR) is a method which can used to capture autonomic nervous system as a parameter from sweat gland function. Physically GSR is a variety electrical skin in this thing to response from any kind of stimuli. On the other word GSR is changeover psychological on the skin caused by sweat gland activity, where is sweat gland will active if body on the stress condition or under pressure.

Basically this device will be monitoring changeover psychological body signal when someone has various stresses. In this final assignment, GSR signals will be filtered on frequency range of 0.5 to 20 Hz. Then, signals are transmitted to PC using serial port (COM) in order to display and monitoring on PC with comparison parameter is signals of blood pressure.