



## Abstract

This report describes an examination of an Electric Power Steering (EPS) arrangement of an automobile. EPS unit can be considered as a Mechatronic unit. In this report, the constitutions, operational instruments and control techniques of EPS unit are presented. An Encoder use measures driver contribution to the guiding wheel, both bearing and rate of turn. This data is encouraged into the microcontroller that decides the coveted control signs to the engine to create the vital torque expected to help it. In spite of the fact that is an electro pressure driven forces helped controlling unit can be utilized to decrease the fuel utilization, however the most extreme advantage can be obtained if the electronic unit is connected rather than the hydraulic powered system. This report demonstrates that a decent power guiding control strategy is accomplished by planning a Mechatronic unit. The test results for that planned EPS unit are likewise written down in this paper.

As another different controlling unit, for wheel alignment testing purpose android application is used. Android application, smart phones are turning into every time all the more effective and furnished with a few frill, an open-source stage an Android has been broadly utilized as a part of advanced mobile phones. Android has completed programming bundles that are helpful for a control system. The motivation behind our venture is to give intense computational android stages with less difficulty to road wheel testing unit equipments. In this control unit additionally portrays how to control front road wheels utilizing through Bluetooth module correspondence. This thesis exhibits a survey of the road wheel controlled by a smart phone by means of moving the wheels center, left and right side by the android application. For example Arduino and Bluetooth. Bluetooth has changed how individuals use advanced gadgets at home or office. Furthermore it has changed conventional wired advanced gadgets into remote gadgets. A host Bluetooth gadget is equipped for speaking with up to a seven Bluetooth modules at same time through one connection. E-wolf is building up the remote catches in the android application by which we can control the road wheels movement with them. Also, in this we utilize Bluetooth correspondence to the interface controller and android.