ABSTRACT

DESIGN AND FABRICATION OF SELF BALANCING BICYCLE FOR LEARNER KID

Self-balancing two wheeler using gyroscope finds its application in the field of road safety. The need for a system to balance a two wheeler irrespective of its motion is on the high. Gyroscopes find its application in other stabilizing systems such as stabilizers in ship and in flight control of aircrafts. We have incorporated the same principle to a two wheeler. This is the simple technology. Main aim of this project is to design a self-balancing bicycle by robot which balances itself with the help of a gyroscope. By this method robot which balances itself so that it prevents itself from falling. A weight based fly wheel rotates at higher speed at centre of wheel inside the hub creating gyroscopic effect helping rider to balance and not to fall. Simple method can help a learner child to learn a bicycle without a person's helps.