Design of propeller clock by using 8051 Microcontroller

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Abstract - The propeller clock is a linear array of light emitting diodes, rotating at a high angular velocity to generate a circular screen. Now by synchronizing these light emitting diodes, and keeping in mind the concepts of persistence of vision & limit of resolution, we can display a clock. The persistence of vision, “What we see is a blend of what we are viewing and what we viewed a fraction of a second before”. The mechanical scanning mechanism, which is performed in the clock when the motor is turned on, the connected seven LEDs are scanned line by line at a very fast speed which makes the observer to observe those led display clock. This project is a special kind of circular LED display. With the help some mechanical assembly, LED count, hardware requirement, and hence overall cost is cut to very affordable price. Also, maintenance and repairing of the display is so easy, that anyone having a little electronics knowledge.