**Propeller Display using AT89C2051 (with project report and presentation)**

ajay_bhargav, Tue Jun 22 2010, 01:52 am

# Propeller Display using AT89C2051

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, can take care of this. All the synchronizing can be implemented through software.

First of its kind, made using the 20-pin 8051 series microcontroller, this project use the principle of Space Multiplexing. This propeller display is mechanically scanned and displays the characters in digital format. Made from scrap it can be used anywhere and everywhere and the most amazing fact about this display is it's crystal clear display. This display consists of just 8 bright LEDs which are rotated to show the display.

For building this project, requirement is just a small 20 pin microcontroller, a position encoder, and LEDs. This display can show the messages, which will require a whopping 525 LEDs. So hardware and cost minimization is achieved.

-From Abstract

This project has submitted by **Chincholkar Apoorv Ravindra, Joshi Sanket Satish and Gore Rigved Bhalchandra**, students of **Vidyaprathishthan's College of Engineering, Baramati**. I thank them for contributing to community and sharing knowledge though this wonderful project.

The download file consist of:

» **Code bundle**: Assembly code written for RIDE, with complete project and hex file.

» **Images**: Working images of project.

» **Project Report**: Project description and report in docx format (MS Word 2007 or more needed).

» **Project Presentation**: Power point presentation in pptx format (MS PowerPint 2007 or more needed).

If you have any questions or need details please make use of forum (Rickey's World Forum).