

PZT FOR THE FUTURE LIFE

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The enhancement of knowledge on harvesting energy using piezoelectric (PZT) has quickly turned into an appealing exploration in these couple of years essentially due to the utilization of semiconductor in power supply innovation. Harvesting vibration energy utilizing piezoelectric component has turned into a magnificent subject since the innovation is utilizing the free energy source which can lessen a significant dependent on battery storage. For this project, four PZT discs are used to harvest energy which would show 1 to 5 volts percentage per PZT for each time the PZT were pinched. The rectifier would stabilize the volts percentage so the current would flows continuously. PZT is used to flow AC current so the rectifier would change the AC current to DC current and full the nickel battery in the power bank and other things. Application of PZT on saddle of the bicycle was done to make use of the physical force when cycling. The PZT was attached on the saddle whereby the pressure from the hips been applied to the surface area of saddle's cover is high. The results show that if the pressure increased, the output volts would be also increase. By utilizing the available energy source, the harvested energy would be stored into the power bank which could be attached and remained portable. There would be also an attached 3 in 1 Micro USB on the body of the bicycle to the handle which would charge the phone straight away. The handle would be also to have holder to put the phone so the phone would react as a GPS for the user to use on daily life such as travelling.