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A Project Report on

"HYBRID TWO-WHEELER"

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ABSTRACT

The automotive industry is currently seeking more efficient ways of increasing fuel economy. Hybrid-electric vehicles are promising answer to this need. The combination of electric and gasoline power results in the ultra-efficient power source. This project intended to build upon this exciting technology to design a unique personal transportation device.

Our group followed up on the work done in some foreign countries, where the hub motor, throttle and battery have been used in combination with human efforts to run bicycles making them hybrid bicycles. This project laid the ground work for our project. Here, our ultimate goal is to repair the petrol-run-two-wheeler frame and to assemble the battery array to be mounted along with the motor and throttle to the existing petrol-run-two-wheeler to build a hybrid two wheeler.

After four months of hard work, we are able to prepare a working two-wheeler that can be driven under both engine and battery mode alternatively. Through testing, we found that our two-wheeler met all of our three objectives.