

# **Perancangan *Auto Smart Switch Lamp* Pada Sistem Kelistrikan Sepeda**

## **Motor *Full DC AHO***

*Auto Smart Switch Lamp Design On AHO (Automatic Headlamp On) Full DC*

*Motorcycle Electricity System*

**Defry Amrudin**

**Automotive Engine Study Program**

**Majoring of Technique**

Program Studi D4 Mesin Otomotif

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### ***ABSTRACT***

*This research aims to make starting vehicle power more less by focusing electric current flowing to starter motor add auto smart switch lamp. Electrical power is the ratio between standard and modified electrical systems. This research used experimental method at State Polytechnic of Jember on October 1, 2016 - June 30, 2017. This experiment focuses on voltage and electric current which then calculated the overall electrical load. The results of the research show that when the electrical load is starting to decrease and can not start the engine. It can be seen from the first starting using the auto smart switch the voltage is reduced from 12.99V to 12.88V with total current flowing to the load of 33.80A and when without using the auto smart switch the measured voltage is 12.99V to 12.82V with total corrected current 38.19A and Constantly changing according to voltage and current measurement charts. The average consumption is reduced by 39.92W and the efficiency given is 8.87%.*

**Keywords:** *Smart Switch, Motorcycle, AHO, Automotive Innovation, Electrical Power,*