

## **ABSTRACT**

### *Expert System Repair Electrical Motor Type Bajaj Pulsar 200cc Using Certainty Factor Method*

*Super Sugih Perdana is a motorcycle dealer which serves a motorcycle sales, sale of spare parts, and services. The most significant from the three of that serves is services, the services which doing now, just the manual services which still rely on mechanics to answer the customers question in the electricity case. The research is motivated by the many request of Bajaj Pulsar 200cc motorcycle electrical repairs. From this case is possible to appears of application system which allows the customers to find out the solution of the motorcycle damage. The research method which use in building this system is data collections phase consists of observation, interviews, and case studies. System applications created using Microsoft Visual Basic.Net with SQL Server 2000 database.*

*This research is purpose to develop an expert system improvements the electricity of Bajaj 200c motorcycles type, so it making easier for the user to find the cause of the damage of electricity and the right solution for that damages. The used method to build this expert system applications is using forward chaining tracking and towing forward using a certainty factor.*

*The result showed that application of expert system improvements the motorcycle electricity is helping mechanics performance nad make it easier to know the solution of the damage suffered.*

**Keywords :**

*Microsoft Visual Basic.Net, SQL Server 2000, Expert System, Services, Electrical, Bajaj, Pulsar 200cc.*