ABSTRACT

The cooling system is a tool that can prevent overheating in a machine. Through this system, the engine temperature will be maintained so as not to overdo it. Even though the engine is running at high RPM and for a long time, the engine temperature will not be excessive. This will keep the machine working effectively and safely over a long period of time.

In this final project research, a monitoring and control tool will be designed on IoT-based racing motorbike engines that is able to see the condition of the engine on racing motorbikes in real time, and can control the actuator or output of the system to maintain temperature stability on motorbike engines when used.

The results obtained from this study are that the cooling system can stabilize the temperature of an efficient motorbike engine, the efficiency value obtained in this cooling system reaches 85% and is very effective in its use.

Keywords: Cooling System, IoT, Motor, Fuzzy Logic