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Dam Automation Using Arduino

Mr. Amit Rajesh Bhople, Mr. Eshwar Machchindra Borude Mr. Suraj Babasaheb Dhokne, Mr. Chaitanya Mahendra Chaudhari, Mr. Dr. D. U. Adokar Department of Electronics & Telecommunication Engineering Adsul's Technical Campus, Chas

Abstract: This research paper explores the application of Arduino-based systems in dam automation to enhance operational efficiency and safety. Dams are critical infrastructures that require constant monitoring and control to ensure proper functioning and mitigate potential risks. Traditional dam operation methods often rely on manual intervention, which can be time-consuming, error-prone, and risky. By leveraging Arduino microcontrollers and associated sensors and Motor, dam automation systems can provide real-time monitoring, data analysis, and automated control, leading to im- proved efficiency, reduced operational costs, and enhanced safety measures. This paper discusses the design considerations, components, implementation challenges, and potential benefits of Arduino-based dam automation systems, along with case studies and future research directions

Keywords: Arduino, Dam Automation, Water Level, IOT

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