

Design of an automatic irrigation system using IoT technology

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Abstract: This topic aims to propose and implement an automatic irrigation system using Internet of Things (IoT) technology. The practical context shows that applying modern irrigation solutions is an urgent need in agriculture. The project's objective is to improve water use efficiency and enhance agricultural productivity through automating the irrigation process. The research method combines theory and experimentation to build a comprehensive IoT system for farms, including environmental sensors, data processing, and control devices. The expected results will contribute to the development of advanced technology in the agricultural sector and provide an effective irrigation solution for widespread application.

Keywords: Automatic irrigation, IoT, agriculture, environmental sensors, data processing