

Automated Plant Watering System using Arduino Uno

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Abstract: *The Automated Plant Watering System is a practical solution for maintaining healthy plants, especially in our fast-paced lives. This paper presents the design, implementation, and real-world application of an automated system that ensures optimal watering for potted plants. By integrating an Arduino Uno, a soil moisture sensor, a water pump, and a servo motor, we create a self-sufficient plant care system. The study includes performance evaluation, challenges faced, and recommendations for future enhancements.*

Keywords: Soil moisture sensor, Microcontroller, Arduino uno