



DESIGN AND DEVELOPMENT OF AUTOMATIC GRASS CUTTING DEVICE USING ARDUINO

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ABSTRACT

This study focused on the design and development of an automatic grass cutting device using Arduino technology to address the challenges of manual lawn maintenance in Nasugbu, Batangas. Traditional grass cutting methods are often labor intensive, time consuming, and unsafe, particularly in residential areas with uneven terrain. These limitations result in inefficiency, higher maintenance costs, and increased physical effort. To overcome these problems, the study aimed to design and develop a functional prototype that can operate with minimal human supervision using Arduino as the main controller.

Keywords: *design and development, automatic grass cutting device, Arduino as main controller*

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