

## ABSTRACT

*Toddler period is a group that is susceptible to malnutrition, one of which is stunting. Globally, in 2011 more than 25% of children under five years were stunted, in 2005-2011 Indonesia ranks fifth in the highest stunting prevalence in Asia. The purpose of this research is to designing a weight and height measurement tool with an assessment of the nutritional status of toddler, the purpose of determining the assessment of nutritional status is if there is a deviation in the nutritional status of toddler, immediate action can be taken so that the toddler's condition does not deteriorate. The contribution of this research is measures the weight and height of toddler, from the weight and height data we can know the nutritional status of toddler. In order to know the assessment of the nutritional status of toddler the main basis in this study uses the Anthropometry method. In its design, this module uses Arduino as the main controller. The sensor used is a variable resistor (potentiometer) which functions to detect toddler's height and then sent by the HC-05 bluetooth module to the PC for reading and the results are displayed in the form of an assessment of nutritional status. Based on the results of measurements of toddler height in the module obtained a maximum error of 0.35% and an average error of 0.093%. This tool can be implemented in the weight and height growth planning for toddlers.*

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**Keywords:** Height, Anthropometry, Resistor Variables