DIGITAL INTEGRATIVE MEASUREMENT
SISTEM DESIGN FOR ANTHROPOMETRYC TEST
OF INDONESIAN ARMY’S CANDIDATE SOLDIER

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ABSTRACT

Anthropometric dimensions is very important for a soldier. Anthropometric dimensions in accordance with the standards will support for using a weapons, vehicles, and war equipments, while also affecting the physical abilities, such as strength and stamina.

There are anthropometric test at selection process of soldiers candidate. Measurement process during this test was done manually, using tools such as yarn, bow, rulers, and tape measure. Every year the number of applicants is very large and the selection process in very limited time, so that in one test candidates tested warrior who reach 10 people by the number of testers as much as 2-3 people. Given some of these testers, it can lead to different interpretations because the cognitive aspects of human measurement. This can cause inaccuracies in the anthropometric test of candidates soldiers. To improve the accuracy of anthropometric measurements in a test of this military recruits, so in this study will be designed with an integrated digital measurement system that uses image processing technology.

Measurements with this system is proven to generate the size of body dimensions on anthropometric test military
recruits are more accurately. The test results showed that there were no differences between manual measurements with the measurement using this system. In addition the test results in the form of scores of candidates can be saved in notepad to enable data archiving. With this measure generates, anthropometric test of TNI candidates soldier become more objective and accurate.

**Key Words:** anthropometric test, image processing