

***DESIGN AND DEVELOPMENT OF DIGITAL DISTANCE MEASURING
EQUIPMENT USING WHEEL BASED ON ARDUINO NANO***

Student Name : Eli Sahdina Tambunan

Registratin Number : 3103191173

Advisor : Marzuarman, S.Si., M.T.

ABSTRACK

Measurement systems are very important in everyday life, for example distance measurement. Measuring this distance requires adequate efficiency and accuracy, to get the exact measurement results as desired. Therefore, a measuring instrument with wheels is made that is efficient for use in any measuring field. This tool uses a Rotary encoder sensor as a sensor that can calculate 360 degrees of wheel rotation. The rotation generated by the Rotary encoder will be converted into a calculation form into centimeters and displayed on a white O LED screen that is integrated with the Arduino Nano which has been programmed with the Arduino IDE in such a way. Then this tool will be equipped with a sound that tells the number of measurements using several components.

Keywords : Sensor, Rotary encoder, O LED, Arduino IDE