

ABSTRACT

The application of Embedded System technology to scanner and printing devices is increasingly common. Starting from the tool model, features, and form. However, Embedded System technology is rarely found on the scanner device. 3D Scanner is the process of collecting surface data and object shapes then displayed in 3-dimensional form. In the 3D Scanning process it will certainly require a tool in the form of or better known as 3D laser scanner or in this time using optic sensor. Scanning objects or objects is done automatically by the machine when the scanner is turned on. This system is built by utilizing stepper motors as drives from optic sensor and flat boards for objects. When scanning the stepper motor will move the optic sensor upwards and rotate the flat plane on the object to be scanned, then the scan results are stored on the SD card using an SD card module for Arduino, then the scan results are transferred to the meshlab application or software to edit .

Keywords: Arduino, Stepper motor, Optic Sensor, Meshlab, SD card Module.