**ELEC3300 Project Description**

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Our project is to make a 3D Scanner. When an object is placed on the designated platform, the 3D shape of the object is produced with the aid of computer. To get the information of the object, laser sensor is used to measure the distance to the object surface and send the data as input to the microcontroller. To get data, the microcontroller controls the rotation of the object by motor and controls the vertical movement of the laser by ball screw. Both actuators are PWM-controlled steppers. LCD screen is used as output for showing important information of the setup. The role of the microcontroller is to provide user interface, controlling devices for getting data during scanning and send it to computer for displaying.