ABSTRACT

The lathe is a machine used for cutting, shaping, carving an object in accordance with the design or a matter that has been specified. However, in practice many results lathe machines is less than satisfactory. It is caused by a calculation engine that is still manual and perkitaan protractor used are still manual, thus affecting performance 4 stroke engine that will be used. That means that only those experts who can use this lathe.

With the development of innovation in the automotive or electronics world, in this final project designed a lathe micro controller based in order to facilitate the work of precision lathe with the results. On the lathe there are control systems and mechanical systems. The control system serves to komunikadi data between arduino and existing GUI on a PC. As for the mechanical system using a DC motor for megatur the angle lathe to be used, so that the turning process will run automatically.

The results of this final project Noken lathe can be used flexibly and with results that neatly. Long delay is used to rotate the dc motor as far as 1 degree is 25ms. The minimum angle which can be reached by this machine at 45 degrees.

Keywords: lathe, micro controllers, arduino,