Review of the diploma thesis

The Author: Vignesh Mohan Kumar

The Title of the work: IMPROVEMENT OF FDM 3D PRINTER

The main objective of the diploma thesis was the suggest improvement of extrusion head of the printer for printing from two materials and complete improvement of the machine for increasing of the quality of the printing. The printer after the change should be tested.

The thesis is structured in to two parts.

In theoretical part is described well know technologies of 3D printing, the printers a way of working of these technologies. The information for this part is based on suitable literature and internet resources. Each chapter is attached with pictures with descriptions. Structure of this part is good.

The second part offers changes of the extrusion head. The author suggested and implemented the improvement of extrusion head. Thanks to several construction changes.

The thesis is focused only on the improvement of extrusion head, and improvement of wiring arrangement. The author did not solve, not even theoretically, the changes of the machines for improvement of the quality of the printing. There was no change in hardware as well as in software.

There is no draw documentation of the parts and the sets.

In the final stage of the research the author mentioned problem with the attaching the new control board to the printer. This problem has not been solved. No test printing was done, so there is no comparison between previous and current state.

The quality of the photographs is poor which is important for details. Also better description of the photographs would be helpful.

Concerning the length, the practical part is much shorter than the theoretical one.

The work follows the assignment only partially.

The thesis does not follow requirement for getting degree.

I recommend the diploma thesis should be supplemented by missing points in the practical part.

Mladá Boleslav 5.6.2017

Ing. Jiří Mačenka
Proposal of the diploma thesis evaluation

Diploma thesis on theme

IMPROVEMENT OF FDM 3D PRINTER

which submitted Vignesh Mohan Kumar
I give him Failed

Mladá Boleslav 5.6.2017

Ing. Jiří Mačenka