

REVIEW OF MASTER'S THESIS

Student's name: Pradeep Vempala
 Master's thesis topic: Reverse Engineering of Complex Shape Part
 Master's thesis supervisor: Ing. Petr Keller, Ph.D.
 Department of Manufacturing Systems and Automation, TUL

Evaluation aspects of master's thesis	Assessment			
	excellent	very good	good	failed
Fulfilling scope of assignment		X		
Technical level of work			X	
Applicability in practice			X	
Use of acquired knowledge		X		
Initiative to solve problems		X		
Conceptual approach		X		
Formal aspects and structure of thesis			X	

The aim of thesis was the designing and realization of methodological process for reverse engineering of complex shape part.

The theoretical part of master's thesis describes basic steps of the Reverse Engineering in Mechanical Engineering.

Practical part is focused on practical application of these steps, i.e. optical 3D digitalization of real model, creation of 3D part model using Geomagic Design X software, prepare technology and generating NC program using EdgeCAM software and manufacture of part on CNC machining centre.

Unfortunately the formal aspects degrade a quite good work with practical output. Especially at the end of the work numbers of figures do not correspond with the references in the text. Understanding of the issues is then worse.

Additional questions:


- Do you know the accuracy of CAD model from Geomagic Design X software (comparing with original mesh)?
- What is necessary to do for better accuracy of machining and what will be the consequences?

In conclusion, the work meets the requirements of the assignment and for the conferment of academic degree.

I recommend the work for the defence.

I propose to evaluate the master's thesis as **VERY GOOD**.

Liberec, 2018/01/17



 Ing. Petr Keller, Ph.D.
 supervisor of the master's thesis