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## Reverse Engineering and Analysis of a Polisher Fan

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**Abstract:** Engineering is the process of design, manufacture, assemble and maintain products and services. Currently there are two types of engineering, forward engineering and reverse engineering (Raja & Fernandes, 2008).

The Reverse Engineering (RE for its acronym in English) is a rapidly evolving discipline and covers a variety of activities, is a process of analysis, validation and recognition mechanisms design and construction of the system components.

RE it is a methodology that is used for virtual 3D models, it aims to determine the characteristics and functions of a process, system or component to play and where possible, improve it.

This paper describes the design of a fan polisher, where it will focus in reverse engineering and some concepts of their applications will be described, the virtual model is obtained by means of a 3D scanner is present, the analysis of the piece is conducted and it will compare the actual piece with the proposed new design, this to get the best design.

*Keywords:* Reverse Engineering, CAD, Scanner 3D, Geomagic, Capture