

**DESIGN OF AN AIR CLEANING SYSTEM
IN A WOOD WORKING INDUSTRY**

by

Andreas Laos

Project Report

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of the Higher Technical Institute
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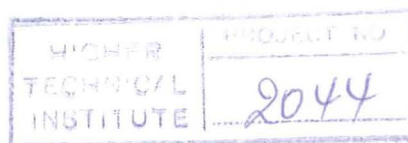
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SUMMARY

The present project deals with the design of an air cleaning system in a Wood Working Industry.

Initially a presentation of the problem is taking place as an introduction.

The whole study is presented in Chapters as follows:

- Chapter 1 Duct sizing
- Chapter 2 Volume flow rate calculations
- Chapter 3 Ducts and duct fitting-construction
 and connections
- Chapter 4 Pressure drop calculations
- Chapter 5 Duct supports
- Chapter 6 Collector and cyclone
- Chapter 7 Fan selection
- Chapter 8 Painting room cleaning system
- Chapter 9 Cost Analysis

The various comments and conclusions are shown in the end of the project while the relative data and designs are shown as appendices.