



# **UNIVERSITI TEKNOLOGI MARA**

**FINAL YEAR PROJECT REPORT**

**SMART PEN  
THE IMPLEMENTARY OF DESIGNING FOR MASS PRODUCTION**

**DIPLOMA IN MECHANICAL ENGINEERING (INDUSTRIAL)  
FACULTY OF MECHANICAL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA  
SHAH ALAM**

**PREPARED BY:**

**SHAROLFIZAN BIN SAMSURI  
99113134**

**HAZMI BIN HARUN  
99113907**

**PROJECT ADVISOR**

**Mr. SHAHRUL AZAM BIN ABDULLAH  
FACULTY OF MECHANICAL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA  
SHAH ALAM**

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## ABSTRACT

Design technology is one of the most important disciplines that a planning to create a product should have and consider. It is not only important but also a necessity to every product in today's challenging world. With the new and improved technology of the product, the need for compatible planning for good product to fulfill the demand is ever increasing day by day.

This project is about the implementery of designing for mass production to produce the new revolutionary pen that name smart pen. The producing of smart pen is use this disciplines system to produce the high quality product that can be used by user. The purpose to design Smart Pen is to solve the user problem when they are writing at dark place.

There will be some explanation about how to choose the best concept, the material selection, and the execution to change the smart pen from plan until produce the product.

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Despite some difficulty and problem faced by us during the completion of the project, we somehow managed to overcome all the odds and completed the paperwork. With the completion of this paperwork, we hope that it will benefit all the people that give the effort in reading this project paper report. We also hope that this report will be the starting point for all those interested “ future engineer “ and “ technology pioneer “ by giving them some ideas that will give them the opportunity in innovating new technology in the future.

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