0000

AUTOMATIC BURGER MACHNE



PROJECT TEAM





ENG. Yazan Haj-Hasan

ENG. Saleh Abuali



ENG. Omar Zaatar

PROJECT **OVERVIEW**

Oppertunity

Why we started this project?

First Machine

As Engineers, How we made our first machine?



Future work

How are we going to start our buisness?

Market Gap

Time-consuming manual machine

Pricey imported **Automatic Machines**

OPPERTUNITY

Customers needs

Restaurants and Butchershops are willing to pay for a relatively low cost, high quality Automatic Burger Machine

Automatic Burger Machine Design





Limitations: 1. Cost 2. Quality 3. Size 4. Noise

Work Principle





The Machine Parts Are Done !!





(Control System) **Processes: Feeding**







Control System Processes: Pressing & Conveyor Movement





Processes: Portion release and Discharging











Inputs: Magnet proximity sensors











Outputs:







Outputs:









Code:



Proirtized Labeled A Multiple control moods Controlable **Variables**

HMI Design:

SW2 DW2 SW0 SW1 Stop tant Cutter Production Rate Pieces Count Settings Reset



Control System











• working with 2 leading companies in our field.







Introduce us to reverse engineering.





Knowledge and experience in manufacturing













Blade:







Problem Solving Skills : Design Problems

Cutting piston Placement:





Problem Solving Skills : Run Problems

In-consistanc center of pressing:









Problem Solving Skills : Run manifacturing wrapping Plastic behavior







- The project team found it a very useful experience to them to implement a practical project in cooperation with the local market
 - Sometimes the design has to be modified to coop with what is available in the local market stock.
 - **Improve our Problem-Solving skills, and encourage us** to put more effort into the thinking and designing stage in the future
 - Real-life manufacturing will always face new problems that were not considered and have to be overcome





