

A

Micro-project

On

# **DEPARTMENT NAME PLATE**

Submitted to

**MSBTE** 

In Partial Fulfilment of Requirement of Diploma Of

**Computer Engineering** 

**Under I Scheme** 

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FOR ACADEMIC YEAR 2021-2022

YASHWANTRAO BHONSALE POLYTECHNIC, SAWANTWADI



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On Sixth semester of diploma in **COMPUTER ENGINEERING** of institute **Yashwantrao Bhonsale Polytechnic** (1742) has completed the **Micro Project** satisfactorily in subject **ENTREPRENEURSHIP DEVELOPMENT(22032)** for the academic year 2021 to 2022 as per prescribed in the curriculum.

Subject Faculty Head of the Department Principal



# **4** ABSTRACT

A name plate is a method for displaying the name of a person, logo, product, or mechanism and is made from a variety of materials to serve as a long term identifier. The production, manufacture, and design of nameplates involves a variety of exceptionally durable materials that are used to etch, engrave, or emboss and permanently place data or information.

Though name plates serve the purpose of identifying people or things, they have a secondary function as a method of informing people of dangerous areas, chemicals, and safe locations in times of emergency. The necessary information gives directions, displays symbols, and offers assistance.

In this project we develop a Department Name plate which includes the name of the department and the name of the college. Department name plate helps to find the particular department room when a new person entered in the college then are easy to find that particular Department room.

# **INTRODUCTION**

Information on name plates is readily, conveniently, and immediately available with detailed and extensive data boiled down to small concise pieces that provide directions, guidance, and assistance. What was once a simple scribbled sign on a door has become a practical necessity used for a wide array of applications.

There are a number of uses for name plates, from engraved data regarding a stamping press to a sign hung on an employee's door. They can be a simple reminder or a warning regarding danger. What is presented is provided to offer information quickly and conveniently without the need to ask for assistance.

# USES FOR NAME PLATES

#### • Brand Awareness

Brand awareness is created by some form of advertising on the radio, in print media, via the internet, and on television. Name plates offer a simpler, less expensive method that can be easily placed in key locations focused on the correct clientele. The type of name plate depends on the location, permanence, and whether customers will be allowed to take them.



#### High Risk Areas

A critical function of name plates is to offer a warning regarding a location or area. Having the proper labeling protects employees, educates staff, meets government requirements, and prevents harm to visitors. Every location has dangerous chemicals, equipment, and conditions that can be protected by proper signage.



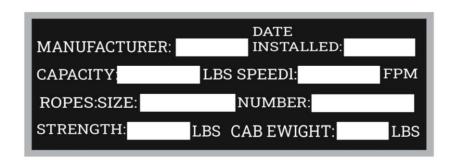
#### Aviation Identification

Aviation name plates are a legal requirement from the Federal Aviation Administration (FAA). The necessary information is model, serial number, certification number, production certification number, aircraft engine rating, and the manufacturer. The plate must be fireproof and made of highly durable metal. Government stipulations specify that it be displayed on the exterior of the aircraft and be easily accessible.

SERIAL NO. PROD.CERT. TYPE CERT.	AIRCRAFT IDENTIFICATION BUILDER MODEL	П
		•
		ш
AVIGRAFIX . COMPLES with 14CFR45.13	AVIGRAFIX . COMPLES with 14CFR45.13	ш

#### Elevators

The purpose of elevator name plates is to outline necessary information for an elevator's inspection and testing. The information displayed shows that the elevator meets required safety standards and specifications. Included are weight capacity, occupancy, date of the permit, emergency instructions, and other data. Since elevator data name plates have to be durable and long lasting, they are normally made of metals that can tolerate many conditions such as stainless steel or aluminum.



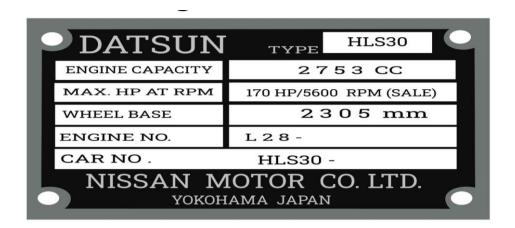
#### • Electric Equipment

Of the many devices in the workplace, electronic equipment can be the most dangerous. Mishandling, improper guidance, or approaching a piece of electronic equipment can lead to serious injury. A name plate provides information regarding how to operate the equipment and the model, serial number, and weight. In many cases, possible safety hazards are listed along with first aid instructions and an emergency phone number.



#### • Vehicle Engines

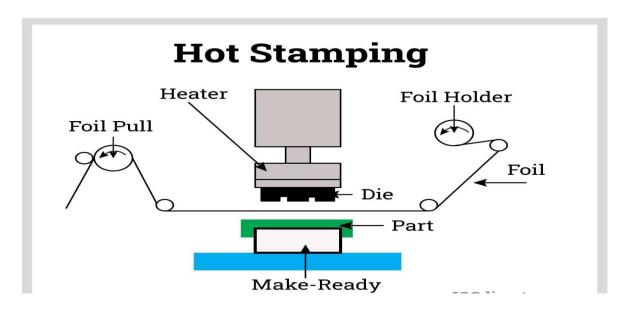
When an engine manufacturer finishes building an engine and testing it, they place an identifying name plate on it to supply information to technicians who will work on the engine. Included on the name plate are the manufacturer, engine industrial series number, specifications, displacement, and emissions standards. The name plate is placed such that it is easily accessible for smooth operation, troubleshooting, and maintenance of the engine.



# **HOW NAME PLATES ARE MADE**

#### Hot Stamping

Hot stamping uses a die, press, and stamping foil. The press heats up the die, which transfers the ink from the foil onto the piece to be marked. When the press disengages, it leaves a crisp, clear, and permanent impression. Hot stamping is a thermal bonding process that creates a permanent bond between the surface of the material and the foil.



# • Screen Printing

Screen printing is an economical process where a mesh screen is used as a stencil and is placed over a metal plate. Once the stencil is positioned, a squeegee applies ink and epoxy. To protect the image and ensure its permanence, a surface coating is applied that seals the colors, image, and surface.



#### • Brass

Much like aluminum, brass, an alloy of copper and zinc, is lightweight but durable with exceptional resistance to weathering and highly charged electrical environments. It is a soft metal that is easily workable, which gives it the ability to be shaped and deformed using etching, stamping, or embossing. As a name plate, brass has a long life span due to its ability to withstand a wide variety of harsh conditions.

Brass is heavier than aluminum because of its copper content, and it gains a patina-like finish after being exposed to stressful and rugged conditions. Its resistance to rust and corrosion has made it an ideal metal for name plates for pipes, valves, and fittings.



#### Vinyl

Vinyl is a plastic made from natural materials, and it is classified as environmentally friendly. Also known as PVC, it is the second most manufactured plastic in the world and has the durability for use in outdoor or indoor name plate applications. It is extremely durable, resistant to humidity and moisture, and cost effective.

Name plates from vinyl can be clear or colored, which expands the designing parameters and offers more versatility. Since vinyl is lightweight, it can be applied using adhesive tape, hangers, and lightweight screws.

WARNING
Springs Under Compression
Remove Long Bolts Last

ACHTUNG
Federn under Vorspannung
Lange Schrauben Zuletzt entfernen

Ressorts on compression
desserrer lesvis longues on dernier

#### Plastic

Plastic polymers used for the manufacture of plastic name plates can be engineered and designed in any shape, color, texture, and configuration to meet customized specifications. As with all plastic products, plastic name plates are made using a variety of processes such as molding, etching, engraving, and embossing. The durability and cost effectiveness of plastic makes an it ideal material for the manufacture of name plates.





#### Wood

The oldest of the crafted name plates are wood name plates that have been engraved, carved, and sculpted for many centuries. Though the process of making wood name plates has advanced into the 21st century, the process remains essentially the same but is completed by technically advanced and perfected computerized machinery. The traditional wood carved name plate can be seen in businesses, homes, offices, and machine shops with letters or numbers carved in the wood or cut out of it.

Many businesses enjoy the appearance of wood as a representation of stability and traditionalism. Although there are better and more resilient materials, classic wood continues to hold people's fascination and imagination.



# PLACING A NAME PLATE

#### Mechanical

Screws, rivets, clips, and fasteners are the most common and secure method for attaching a name plate. This method is durable and allows for permanent placement of a name plate in the exact required position. It is cost effective and an excellent method for maintaining name plate appearance.

#### Adhesives

The application of adhesive name plates is as simple as peel and place. Once the name plate has completed processing, the back is sprayed with an adhesive and covered with a thin film of paper. When making the decision to use the adhesive method for applying a name plate, it is important to consider the condition of the surface, orientation, environment, and exposure to the elements.

#### Surface conditions

The surface conditions refer to the place where the name plate will be hung and the adhesive surface of the name plate. The easiest surface for applying an adhesive name plate is metal since it is smooth and free of deformities. A foam adhesive is the best type of adhesive, and it can be applied to any surface except those that have been treated with a coating or powder.

#### Orientation

Horizontal placement of name plates is easy and ensures secure placement. When an adhesive name plate is placed vertically on a wall or piece of equipment, there is a danger of it falling; this can be prevented by considering the weight of the name plate and using a strong adhesive.

#### Environment

The type of placement, such as moving or stationary, and whether it will be indoors or outdoors, have major influence on the type of adhesive used. Though indoor environments are considered to be safe and secure, they can potentially be as demanding as outdoor environments.

#### Exposure to the Elements

Radical temperature changes, damaging chemicals, humidity, and UV light require the use of adhesives specifically designed to meet those conditions. Manufacturers work with customers to customize adhesive selection to meet the needs of special conditions

## Welding

Welding of a name plate is limited to metals with the correct weight, thickness, and stability. This method is reserved for heavy machinery, motors, and storage tanks. Welding a name plate ensures permanent placement. For storage equipment and machinery that can be hazardous or dangerous, welded name plates are a necessity.

#### Hanging

Hanging name plates is the least expensive and most convenient method. A hung name plate can be easily removed and quickly placed.

#### Metal Holders

Metal holders come in a wide variety of shapes and forms with varieties that can be placed on a desk and others that can be attached to a wall or door. They can coordinate with the décor of their location and can be unique to the personality of the company or individual. Metal holders have slots for the name plate to be positioned and secured.

# **4** BENEFITS OF NAME PLATES

- The proper placement of name plates permits easy access to information and locations avoiding the need to give directions or guidance.
- Name plates are an identifier that presents information in a concise and efficient form for smooth operation and performance.
- The use of name plates offers clear structure and organization to inventory, offices, machinery, and processes.
- Professionally produced and well planned name plates provide an atmosphere of professionalism, trust, and stability.
- The placement of name plates assists in identifying the importance of a person or piece of equipment. Such knowledge can help people understand and respect a process, person, piece of equipment, or location.

# **4** OUTPUT

# YASHWANTRAO BHONSALE POLYTECHNIC, SAWANTWADI

DEPARTMENT OF COMPUTER ENGINEERING

# **4** CONCLUSION

A name plate is a method for displaying the name of a person, logo, product, or mechanism and can be made from a variety of materials to serve as a long term identifier. Name plates make information conveniently and immediately available. There are as many ways to make name plates as there are uses and types of name plates. The purpose of a name plate is to present information such as a person's name, a warning of danger, machine specifications, and other pertinent and necessary data. Complex and long lasting name plates are made by professional manufacturers using the highest quality materials.

## REFERENCES

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