

## THE NEWS LETTER

NOVEMBER 2023, VOLUME-3

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#### Greetings

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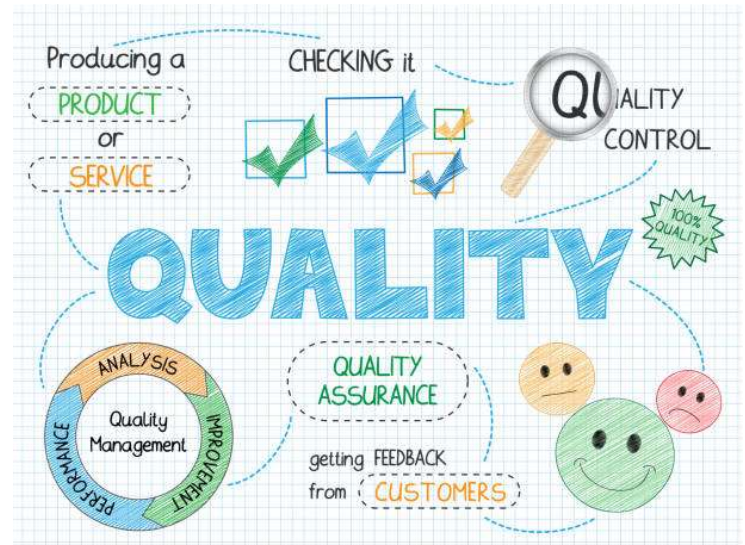
#### Welcome Note

Welcoming our new onboard employees and their details.

#### Knowledge Sharing

Reverse Engineering. The mirror of reality.

### Director's Message,



#### Dear Team Members,

It is an immense pleasure for me that our company is progressing, gained its respect among the competitors in the market. I am indebted to the management of our company who rendered their invaluable support over the years, placing its wheels on the track to become a company of choice. I have a firm belief that unless and until our internal customers are not satisfied, we won't be able to satisfy our external customers.

As you all are aware the services in service industry being the lowest in India from last 7 Months in India, we maintained our business momentum in the increase in trend.

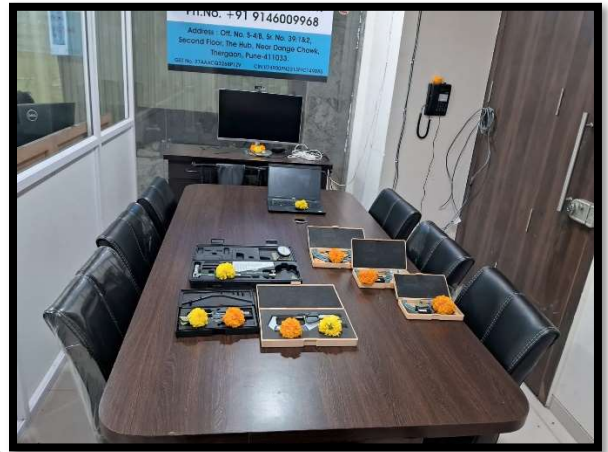
As you all are aware the festival of lights is approaching, We the management of AutoScan India Private Limited wishing you all a very Happy Diwali. And my hearty festive greetings to you and your near and dear ones on the festival of lights. May your life illuminate with millions of lamps of happiness, hope, success, and joy. Have a wonderful and joyous Diwali with your loved ones.

-Shreehari Kalakeri.

## Corporate News:

The HR Department has been strengthened with the new joining of Mrs. Yashomati Shinde as Head of HR. She has vast experience of 13 Years. She will be taking care of all HR related activities (Employee Concern, Employee Issues, Employee Relationship, All Types of Letters, Salary Structure Preparation, Salary Negotiation), Recruitment, Compliance, and other Admin activities. She is available on TEL: 08956093025 (During Office hours Only) and E-Mail Id: [hr@autoscan-india.com](mailto:hr@autoscan-india.com).

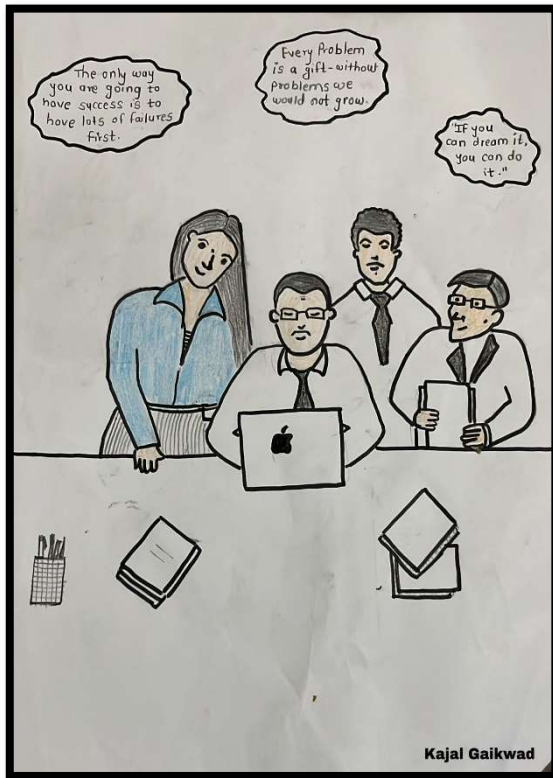
We blessings of the divine goddess we have grown a stage where we are today, as a part of our culture and duty we have performed pooja in our office comprising rangoli, ayudha pooja, team picture and pooja. Some glimpses are here for you:





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Some of our employees have submitted their part of token to Newsletter like Slogans, Drawings. Appreciating their skills and their part of contribution. Anticipating more in the coming volumes from all staff throughout PAN India.

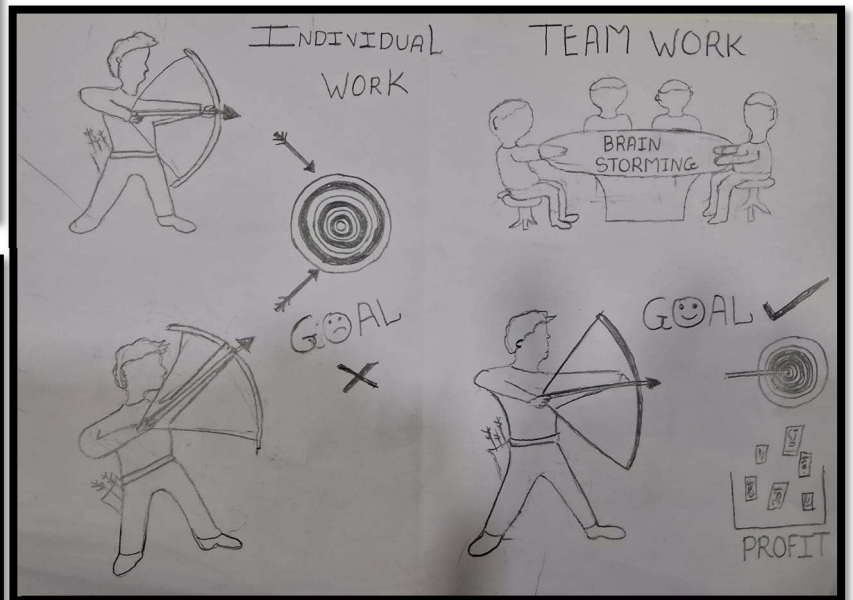


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# E X P E R I E N C E E X C E L L E N C E E N G I N E E R I N G

## Diwali

Diwali, the festival of lights, marks the time when millions of people across the world celebrate the triumph of good over evil with beautiful rituals such as festive lights, fireworks, sweet delicacies, and family gatherings. We delve into the Diwali story, history, and traditions, to find out how Diwali is celebrated and how you can take part in the magical festivities.

In one of the main stories in Hindu mythology, Diwali is the day Lord Rama, his wife Sita Devi and brother Lakshmana return to their homeland after 14 years in exile. The villagers lit a path for Rama, who had defeated the demon king Ravana. Reenactments of this story are part of celebrations in some regions.

Another Diwali story in Hindu mythology is that Diwali marks the day Lord Krishna defeated the demon Narakasura and freed the people of his kingdom. After he slayed the demon, Lord Krishna declared it a day of festivities. In some parts of India, people burn effigies of the demon kings in both stories as part of the celebration.

People also celebrate the Hindu Goddess Lakshmi during Diwali. As the goddess of prosperity, wealth and fertility, the romantic Diwali story says that she chose Lord Vishnu, one of Hinduism's most important deities, to be her husband on the night of Diwali.

In other cultures, Diwali coincides with harvest and new year celebrations. No matter which Diwali story you celebrate, it's always a day of new beginnings and light over darkness.

Diwali is the festival of lights and happiness. People celebrate Diwali as a victory of good over evil. They celebrate Lord Ram's arrival in Ayodhya. People decorate their homes with lights and rangolis. They wear new clothes and offer sweets to everyone. Diwali is the favorite festival of most people. It teaches us to stay together and be happy.



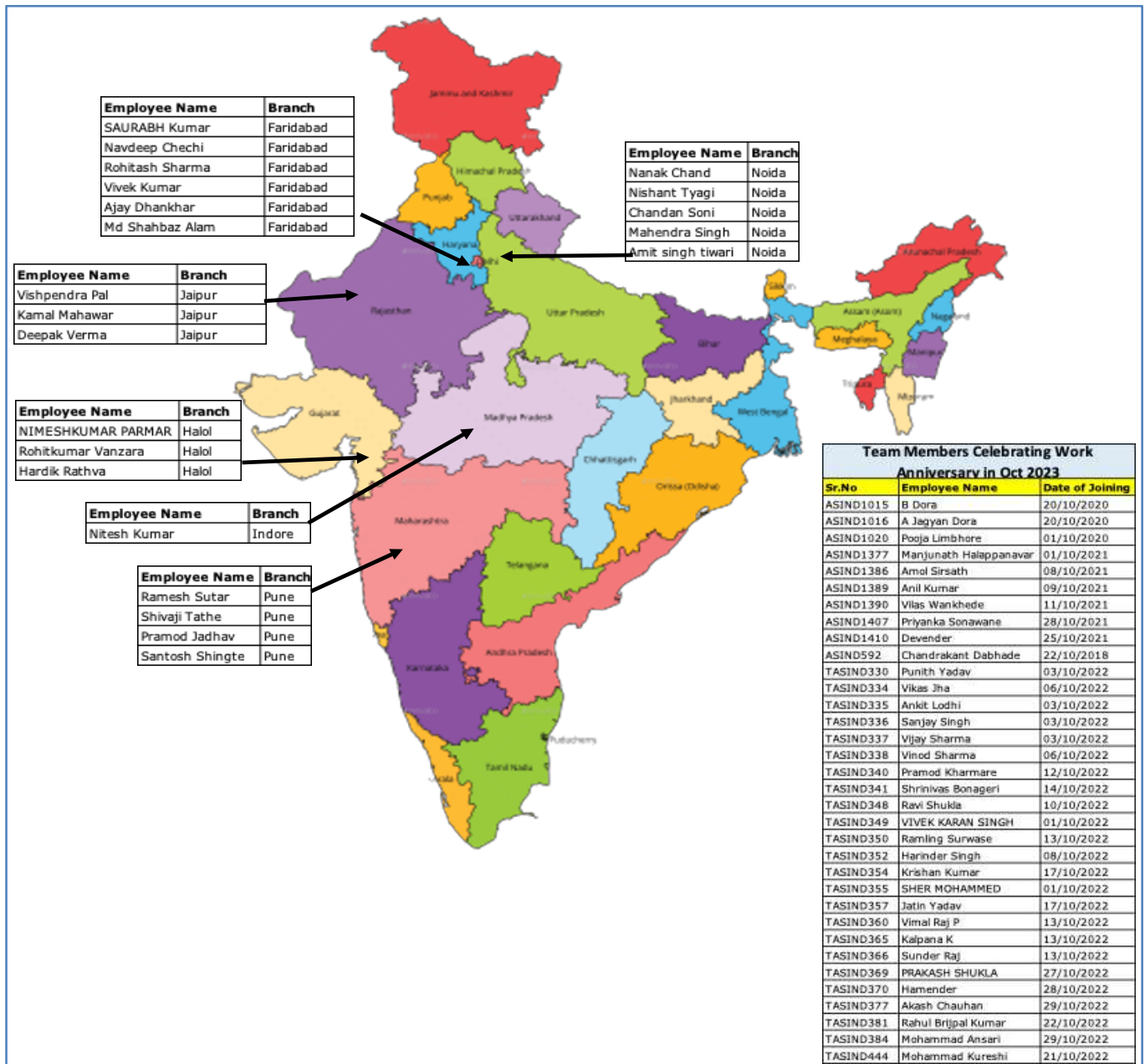
## Welcome On Board



Welcome to the team! We're thrilled to have you at AutoScan India Private Limited. We know you're going to be an asset to our company and can't wait to see what you accomplish.!

As you are now part of our family! Get ready to depart on an exciting journey with us!

### Location wise Team Members Joined us in October 2023 & Members Celebrating the Work Anniversary with AutoScan.





### Topic: Reverse Engineering

Reverse engineering (also known as backwards engineering or back engineering) is a process or method through which one attempts to understand through deductive reasoning how a previously made device, process, system, or piece of software accomplishes a task with very little (if any) insight into exactly how it does so. Depending on the system under consideration and the technologies employed, the knowledge gained during reverse engineering can help with repurposing obsolete objects, doing security analysis, or learning how something works.

Although the process is specific to the object on which it is being performed, all reverse engineering processes consist of three basic steps: information extraction, modeling, and review. Information extraction is the practice of gathering all relevant information for performing the operation. Modeling is the practice of combining the gathered information into an abstract model, which can be used as a guide for designing a new object or system. Review is the testing of the model to ensure the validity of the chosen abstract.

There are many reasons for performing reverse engineering in various fields. Reverse engineering has its origins in the analysis of hardware for commercial or military advantage.[6]:13 However, the reverse engineering process may not always be concerned with creating a copy or changing the artifact in some way. It may be used as part of an analysis to deduce design features from products with little or no additional knowledge about the procedures involved in their original production.

As computer-aided design (CAD) has become more popular, reverse engineering has become a viable method to create a 3D virtual model of an existing physical part for use in 3D CAD, CAM, CAE, or other software.[14] The reverse-engineering process involves measuring an object and then reconstructing it as a 3D model. The physical object can be measured using 3D scanning technologies like CMMs, laser scanners, structured light digitizers, or industrial CT scanning (computed tomography). The measured data alone, usually represented as a point cloud, lacks topological information and design intent. The former may be recovered by converting the point cloud to a triangular-faced mesh. Reverse engineering aims to go beyond producing such a mesh and to recover the design intent in terms of simple analytical surfaces where appropriate (planes, cylinders, etc.) as well as possibly NURBS surfaces to produce a boundary-representation CAD model. Recovery of such a model allows a design to be modified to meet new requirements, a manufacturing plan to be generated, etc.

