



EVENT REPORT

INDUSTRIAL VISIT REPORT

AT

**VISVES AUTOMATION ENGINEERING PVT.
LTD. AHMEDABAD**

Date: February 1, 2025

Coordinator

Prof. K.K.Acharya

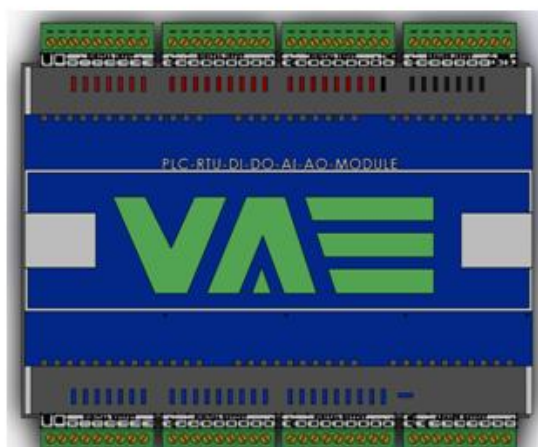
Asst. Professor - IC

Introduction

As part of our academic curriculum, we had the opportunity to visit *Visves Automation Engineering Pvt. Ltd.*, located in Ahmedabad. The visit was organised under the guidance of our mentor, Prof. Ketan Acharya. The main objective of this visit was to gain practical exposure to automation technology and understand its real-world applications beyond the classroom.

About the Company

Visves Automation Engineering Pvt. Ltd. is a well-established company specialising in manufacturing automation panels for water pumps and providing customised automation solutions based on client requirements. They have a strong focus on innovation, driven by their advanced Research and Development(R&D)department.









Observations and Learning Outcomes :

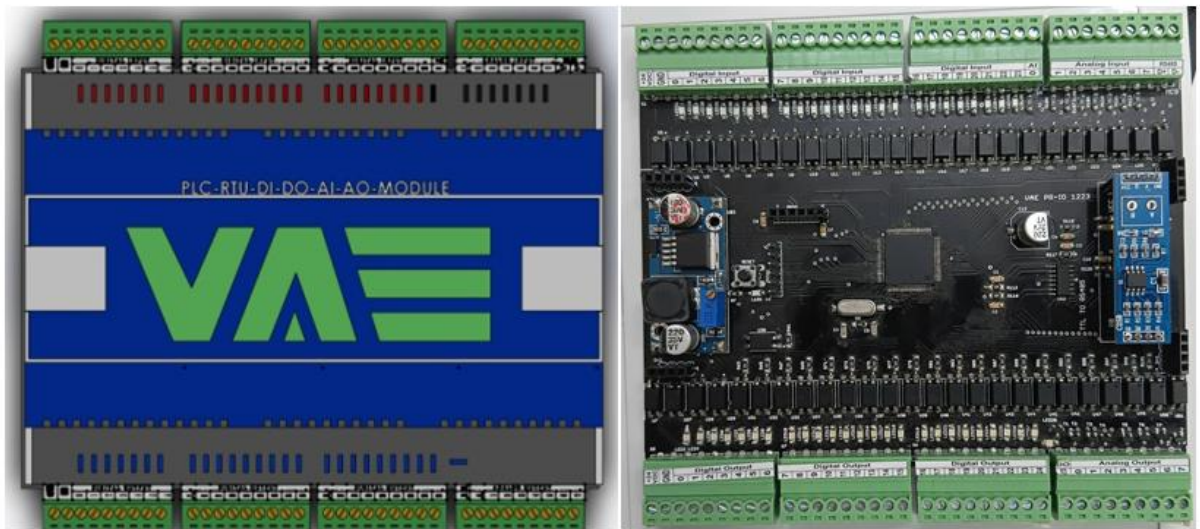
During the visit, the company representatives provided us with a detailed explanation of the components used in automation panels and their working principles. We were introduced to a variety of automation technologies, including devices integrated with IoT applications. The integration of IoT makes their products more cost-efficient and reliable, offering smart solutions to modern automation needs.

The R&D department was particularly impressive, showcasing several innovative devices and projects. One of the highlights of our visit was witnessing their ongoing drone projects, developed by their interns. These drones demonstrated the company's commitment to nurturing young talent and fostering innovation.

Beyond technical knowledge, the team at Visves Automation Engineering Pvt. Ltd. also motivated us by sharing insights about the practical aspects of corporate life in the automation industry. They highlighted the differences between academic learning and real-world applications, encouraging us to think practically and stay updated with evolving technologies.

Products:

- 1. PLC RTU MODULE :** The VAEPRIO is a versatile PLC module combining digital and analog input/output capabilities in a single compact design. It ensures seamless integration with PLCs and microcontrollers using RS485 or Ethernet communication protocols, offering flexible, efficient, and reliable solutions for industrial automation. Its user-friendly interface and compact DIN rail mountable design make it the perfect choice for optimizing control systems across industries.



FEATURES:

- Extensive I/O Capabilities: 24 digital inputs, 26 digital outputs, 8 analog inputs, and 8 analog outputs
- Communication: Supports Modbus RTU (RS485) and Modbus TCP/IP (Ethernet) protocols.
- Robust Design: DIN rail mountable with LED indicators for power, communication, and I/O status.
- High Accuracy: Good resolution for both analog input and output, ensuring precise control.

2. Smart Integrated Pump & Valve Control Panel :

The Integrated Pump & Valve Control Panel ensures precise regulation of tank levels and optimizes the performance of valves and pumps in industrial water systems. Designed for advanced control, it supports seamless monitoring via cloud-based IoT systems and offers multiple

power source configurations, including solar, making it ideal for critical water management operations.



FEATURES:

- **VFD Technology:** Uses Variable Frequency Drive (VFD) for energy-efficient pump control based on real-time water levels.
- **Comprehensive Monitoring:** Tracks ESR and GSR tank levels, inline pressure, flow rate, turbidity, and chlorine levels using up to 8 analog sensors.
- **Dual Power Compatibility:** Supports both AC and DC power, with automatic switching between sources for uninterrupted operation.
- **IoT Integration:** Cloud-based monitoring and control for real-time insights into system performance.

3. Mini SCADA Panel for Pump Operation and ESR Tank Level Management:

Mini SCADA Panel is an advanced solution designed to efficiently operate pumps and maintain Elevated Storage Reservoir (ESR) tank levels. This compact yet powerful system leverages star-delta technology for pump operation, ensuring energy efficiency and reduced starting current. With the capability to support up to 8 analog sensors, our SCADA panel provides comprehensive monitoring and control of the process, enabling precise adjustments based on real-time data.



Conclusion

The industrial visit to Visves Automation Engineering Pvt. Ltd. was an enriching experience. It not only broadened our understanding of automation systems but also inspired us to bridge the gap between theoretical knowledge and practical implementation. The exposure to live projects and the guidance from industry professionals have added immense value to our learning journey.

We are grateful to Prof. Ketan Acharya for organising this insightful visit and to the entire team at Visves Automation Engineering Pvt. Ltd. for their warm hospitality and knowledge sharing.



VISVES ADVANCE ENGINEERING PVT. LTD

Smarter Innovation for Smarter Indians
CIN:U29309GJ2023PTC138340

Visves Advance Engineering Pvt. Ltd.

Industrial Visit Attendance Sheet

| Sr. No. | Student Name | Mobile Name | Enrollment No. | Collage Name | Branch | Signature |
|---------|------------------|-------------|----------------|--------------|--------|---------------|
| 1 | Ayushi Gajjar | 9016046436 | 230130117003 | GEC, G | IC | Ayushi |
| 2 | Purni Patelhakar | 942149821 | 240133117036 | GEC, G | IC | Purni |
| 3 | Pratisha Raj | 7061711405 | 240133117038 | GEC, G | IC | Pratisha |
| 4 | Mahima Chaudhary | 6387251984 | 230130117005 | GEC, G | IC | Mahima |
| 5 | Shikha Gramit | 7990176662 | 230130117029 | GEC, G | IC | Shikha |
| 6 | Suhil Kachharia | 9228004555 | 220130117011 | GEC, G | IC | Suhil |
| 7 | Pakshil Patel | 8849917697 | 230130117020 | GEC, G | IC | Pakshil |
| 8 | Vishal Soni | 9624124899 | 230130117023 | GEC, G | IC | Vishal |
| 9 | Anand Sonaga | 7007693811 | 230130117001 | " | " | Anand |
| 10 | Jenish Tandel | 9054425195 | " 034 | " | " | Jenish |
| 11 | Adithya Nair | 7227823145 | " 014 | " | " | Adithya |
| 12 | Kamisha Jadau | 8347106551 | " 008 | " | " | Kamisha |
| 13 | Sahil Pambhani | 980515469 | 210130117037 | GEC, G | IC | Sahil |
| 14 | Zokaneshubhai S | 6359698551 | 240133117052 | GEC, G | IC | Zokaneshubhai |
| 15 | Chauhan Aditi | 9601866014 | 240133117003 | GEC, G | IC | Chauhan |
| 16 | Mit Prajapati | 9824242554 | 230130117026 | GEC, G | IC | Mit |
| 17 | Byasodhan | 7383902801 | 230130117009 | GEC, G | IC | Byasodhan |
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|----------|-------------------|-----------|
| Mentor-1 | Name | Signature |
| | Prof. K K Acharya | |
| Mentor-2 | Name | Signature |
| | | |

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