INDUSTRIAL TRAINING FINAL REPORT

GASTRI SOLUTION SDN BHD

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SELANGOR

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CHAPTER 1: INTRODUCTION

1.1   COMPANY BACKGROUND

Gastri Solution Sdn Bhd is a sector company that manages electrical, electronic, and networking projects throughout Malaysia. The company is in Bandar Baru Bangi, Selangor. Established in 2007. Our dedication to offering the highest caliber of service, with particular focus on working quickly while maintaining an open line of communication with client and ensuring client' safety by always ready to ensure that the CCTV cameras work properly and efficiently.

The goal of this organization is to consistently deliver the highest quality service, on time and within budget. To guarantee the success of their operations and maintain the highest standards, the staff is highly trained and dedicated to perfection. The team works closely together, continuously improving their skills and knowledge to adapt to the evolving demands of the industry. In addition to their internal capabilities, the organization has cultivated strong, mutually beneficial relationships with leading companies and industry partners. These partnerships include well-established names such as Belco, Dahua, ZKTeco, Hikvision, Samsung, and Paradox, which further enhance their ability to provide innovative and reliable solutions for every project.

1.1.1 Objective and Scope of GASTRI SOLUTION SDN BHD

1. To become nation networked leader in electronic security and surveillance system with innovative solution

2. To uphold high standards of technical expertise in all our services, from installing new CCTV camera units to diagnosing and fixing issues efficiently, ensuring optimal performance for our clients.

3. To promote energy-efficient solutions in CCTV systems, helping our clients by providing security guarantees.

Figure 1. 1: Perspective view of Gastri Solution Sdn Bhd

CHAPTER 2: JOB RESPONSIBILITIES

2.1   TASK EXECUTION

My internship at Gastri Solution Sdn Bhd focused primarily on CCTV system, electronic things and electrical systems. The tasks I completed fell into four categories: wiring, services, troubleshooting, and installation. I gained valuable practical experience in these fields, which helped me improve my technical skills and knowledge of security system and electrical engineering.

2.1.1   Analog Camera and IP Camera CCTV Wiring

This entailed routing and connection electrical components were properly connected to ensure efficient and safe operation. Wiring a CCTV camera system involves several steps, and the process will vary based on the type of cameras (analog or IP) used.

2.1.1.1   Work Procedure

The CCTV camera location determination is choosing whether to use analog (CCTV) cameras or IP cameras. Analog cameras use coaxial cables for video transmission, while IP cameras use Ethernet cables. Identify whether to use analog (CCTV) cameras or IP cameras. Analog cameras use coaxial cables for video transmission, while IP cameras use Ethernet cables. Measure the distances between the cameras and the DVR (for analog) or NVR (for IP) to ensure enough cable.

To set up analog wiring CCTV system, start by installing the cameras at the desired locations, ensuring they are positioned for optimal coverage. Next, run the coaxial cables from each camera to the location where DVR will be placed. If using Siamese cables, which combine both video and power into a single cable, only one cable per camera is needed. Afterward, connect each camera to a central power supply using the appropriate power cables. Many people use a "power box" to manage multiple cameras from one central point. At the DVR location, connect the other end of the coaxial cables to the corresponding video input ports on the DVR. Finally, power on the system and test each camera's view on the monitor connected to the DVR,