



# Internship Report

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## 1 Thanks

First of all, I'd like to express my deep gratitude to everyone who helped make my internship at Fuyao my first pleasant professional immersion.

It all started when my parents contacted **Huang Xianqian** who works at Fuyao, and I'd like to thank him for having been the source of this opportunity. I was referred to **Su Yumei**, a welcoming lady who opened the company's doors to me on my very first day.

I'd also like to thank **Peng Wenguang**, who took care of all the administrative procedures. His efficiency and kindness made the formalities connected with my internship much easier and enabled me to concentrate quickly on my assignments.

I'd like to express my gratitude to **Zeng Yantian**, my internship supervisor, an exceptional woman. Her passion for her work, her competence and her kindness inspired me throughout my internship. She patiently guided me through the course and gave me invaluable advice.

Of course, I can't forget my parents, who played an essential role.

This first experience gave me a taste of the professional world, which turned out not to be all that unpleasant.

With my sincere thanks,

HUANG Julien

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## 2 Introduction

My objective in this internship search was simple: How could I be efficient?

In other words, how to validate part of the international mobility program, the internship, and finally, how to spend a good vacation with my family in China?

Fuyao was the solution, because the company's head office is located in the city where my whole family is (Fuqing), and we also had contacts within the company, which enabled us to have this opportunity.

It's also a choice of prestige: Fuyao is the pride of our city, the pride of our country.

It's also an opportunity for me to improve my Chinese, gain professional experience abroad in a major company, and learn more about Chinese culture, which is very different from French culture.

This company makes glass for cars.

Here are a few incredible figures:

- Total assets of 47.5 billion yuan
- Covers 30% of the market
- Present in 11 countries and regions
- 70 countries covered
- more than 27,000 employees

Source : <http://www.fuyaogroup.com/en/>



Figure 1: Fuyao : Head office

### 3 Development

#### 3.1 The business environment

##### 3.1.1 Presentation

Fuyao Glass Industry Group Co, Ltd ("Fuyao Group") is a large multinational company specializing in the manufacture of automotive safety glass and industrial technical glass. In other words, it's a heavyweight in its field.

My internship is taking place at the head office, which is located in Fuqing in Fujian province (opposite Taiwan).

##### 3.1.2 The economic sector

Fuyao Group is a leading company in the automotive glass sector, supplying high-quality glass products to automakers worldwide: windshields, side windows, rear windows and other glass components used in vehicles. So when you see a car on the street, the glass most likely comes from Fuyao.

Vehicles need high-quality glass to ensure passenger safety, and with demand for cars increasing worldwide, the automotive glass sector is growing rapidly. Perhaps it's time to invest...

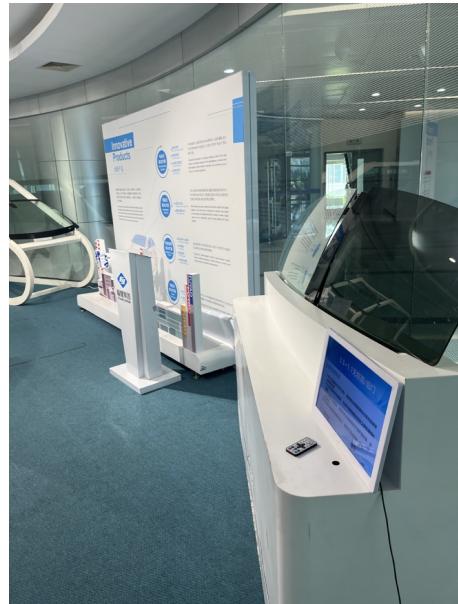


Figure 2: Economic sector

## 3.2 The company

### 3.2.1 Company history

Fuyao Glass Industry Group Co, Ltd, commonly known as Fuyao, is a Chinese company specializing in the manufacture of automotive glass. Founded in 1987 by Mr. Cao Dewang, Fuyao has become the largest automotive glass manufacturer in China and one of the world's leading players in the sector.

Fuyao supplies high-quality glass products for the automotive industry, including windshields, side windows, panoramic roofs and other glass components used in various car models. The company supplies its products to many of the world's leading automotive brands.

Fuyao has grown rapidly over the years thanks to its commitment to innovation, quality and international expansion. It has extended its operations beyond China, establishing factories and subsidiaries in several countries, including the USA, Germany, Russia, South Africa and Brazil.

### 3.2.2 The company today

Here's a link to the company's website: <http://www.fuyaogroup.com/en/>

Fuyao now has a number of modern production bases in 16 provinces and cities in China and in 11 foreign countries, including the USA, Russia, Germany, Japan and South Korea, as well as six R&D centers in China, the USA and Germany, and employs over 27,000 people worldwide.

Today, the Fuyao Group has become one of the world's leading suppliers of automotive glass, with its products recognized and purchased by the world's leading automakers and original equipment manufacturers, such as **Bentley**, **Mercedes-Benz**, **BMW**, **Audi**, **GM**, **Toyota**, **Volkswagen**, **Ford** and **Chrysler**. Big guns hang out with big guns.



Figure 3: view

### 3.3 The framework of the internship

I was welcomed into the IT department.

The weeks are structured as follows

7:30-11:30 a.m. then 1:30-5:30 p.m., Monday to Friday. That's 40 hours a week. It's also an unpaid internship.

My expenses per day ( as I live with my cousin I don't count accommodation costs. **NB:** summer in China is evil, it wants to harm you, hurt you, without air conditioning or fan you do not survive, so take a housing with an air conditioner) :

- travel expenses: 5 euros/day, 14km to cover.
- food costs: it's possible to eat a repat for 1 euro, but if you want to eat a good meal, you'll need to count on 3 or 4 euros. If you want to eat at French prices, i.e. 15-20 euros, then you'll eat like a prince.

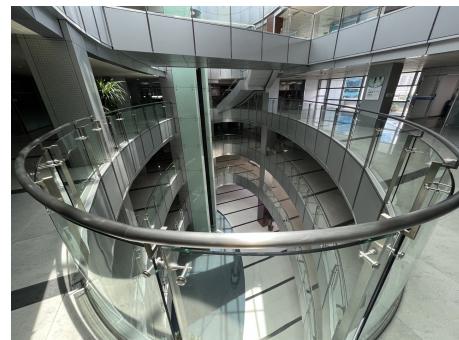
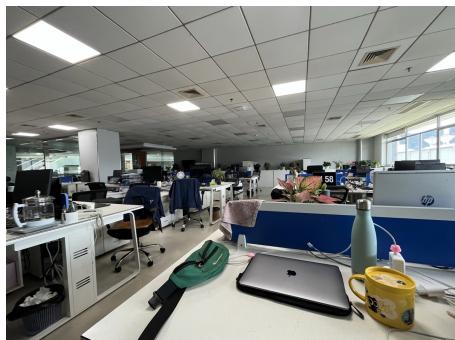
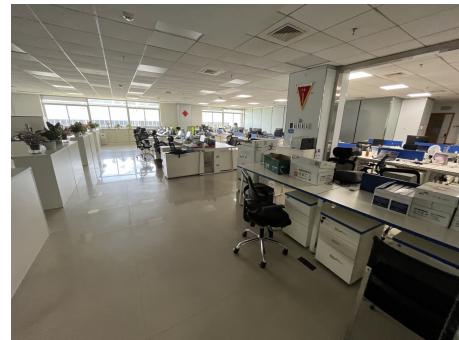


Figure 4: Office

### 3.4 The benefits of the course

#### 3.4.1 The tools we use

- **WeChat** : the main means of communication in China. You can do absolutely everything with it: it can be used as a means of payment (a bit like Lydia), you can hail cabs, order food, buy train tickets...

Disadvantage: you need a Chinese identity card and a Chinese telephone number (+86) to use it to its full potential.

In China, very few people still use cash.

As my parents have a Chinese identity card, there wasn't too much of a problem, I was able to use their identity to create an account, but it will be difficult for a foreigner to use Wechat to its full potential. (He won't be able to pay with it, he'll only be able to use it as a means of communication).

And good luck getting a phone number... To sum up, China's not very tourist-friendly. Wechat is indispensable because it has served me well both for communicating with office colleagues and for traveling.

- **WeCom** : (uses your location + you need to connect to the company network) that lets you check in every time you arrive at the office or are about to take your break (4 times a day, at 7:30 am, 11:30 am, 1:30 pm and 5:30 pm). This tool is used to check an employee's punctuality and reliability.
- **Computer** : I used my personal laptop.

#### 3.4.2 The different missions

During my internship I was involved in two key assignments that enabled me to deepen my knowledge of regulations and data security. They focused on the General Data Protection Regulation (GDPR) and ISO/IEC 27001 standards.

- **Mission 1 : *GDPR compliance***

The first task I was given was to clarify the various concrete actions that the company must take to comply with the GDPR, particularly with regard to the classification, collection, storage, use, transfer and destruction of personal data...

I had at my disposal a document summarizing all the actions the company could take. (look 6)

My job was therefore to understand the objectives of the GDPR and then to find out what actions the company could take to ensure compliance with the GDPR.

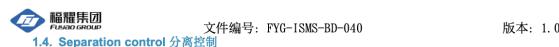
I have undertaken the following actions:

- Reading and analysis of the GDPR ( 88 pages ).
- Understanding the expectations of the GDPR.
- Summary of actions in a table 5.
- Proofreading to improve work or correct errors.

In summary, to be GDPR-compliant, Fuyao must take concrete steps in every area related to the processing of personal data. This involves raising awareness among all the relevant players within the company, implementing robust policies and procedures, and ensuring that individuals' data protection rights are respected.

数据保护合规要求 Data Protection Compliance Requirements	
数据处理活动 Data processing activities	通用数据保护条例 (GDPR) General Data Protection Regulation (GDPR)
分类分级 Classification	<p>1. <b>Categorize data:</b> Categorize the data based on its sensitivity, such as personal data, financial data, or confidential business information. 对敏感数据进行分类：根据数据的敏感性进行分类，如个人数据、财务数据或机密商业信息。</p> <p>2. <b>Implement data classification policies:</b> Implement clear data classification policies that define the criteria for classifying data based on its sensitivity. 实施数据分类政策：制定清晰的数据分类政策，以定义根据其敏感性对其进行分类的标准。</p> <p>3. <b>Train employees:</b> Provide training and awareness programs to employees to ensure they understand the classification policies and know how to properly handle and protect classified data. 培训员工：为员工提供培训和宣传计划，确保他们了解分类政策，并知道如何正确处理和保护分类数据。</p> <p>4. <b>Implement appropriate technical and organizational measures:</b> Implement appropriate technical and organizational measures to ensure data protection, such as access controls, encryption, data loss prevention measures, and security audit trails. 应用适当的控制措施：根据数据的分类实施适当的安全控制，这可能包括访问控制、加密、数据丢失防护措施和安全存档解决方案。</p> <p>5. <b>De-identify data:</b> Where possible, de-identify data to reduce the risk of re-identification. 隐私化数据：尽可能地对数据进行匿名处理降低重新识别的风险。</p> <p>6. <b>Confer with supervisory authorities:</b> Consult with data protection supervisory authorities in the event of a data breach or other data protection incident, and provide timely and accurate information. 向监管机构咨询：在发生数据泄露或其他数据保护事件时，向监管机构咨询并提供及时准确的信息。</p>
公司在数据处理活动中的角色 Company's role in data protection	<p>数据控制者/数据处理器 data controller/ data processor</p> <p>1. <b>Develop a data protection policy:</b> Enable a comprehensive data protection policy to outline the company's commitment to protect personal data and the measures it will take to ensure compliance with data protection regulations, such as GDPR, and to manage data protection risks. 制定数据保护政策：制定一个综合性的数据保护政策，概述公司对保护个人数据的承诺以及将采取的措施来确保遵守数据保护法规，如GDPR，并管理数据保护风险。</p> <p>2. <b>Designate a data protection officer:</b> Designate a data protection officer responsible for overseeing the company's data protection practices, ensuring compliance with data protection regulations, and managing data protection risks. 指定数据保护专员：指定一名数据保护专员，负责监督公司的数据保护实践，确保遵守数据保护法规，并管理数据保护风险。</p> <p>3. <b>Comply with data protection regulations:</b> Ensure the company complies with relevant data protection regulations, such as GDPR, and takes appropriate measures to protect personal data. 遵守数据保护法规：确保公司遵守相关数据保护法规，如GDPR，并采取适当的措施来保护个人数据。</p> <p>4. <b>Implement appropriate technical and organizational measures:</b> Implement appropriate technical and organizational measures to ensure data protection, such as access controls, encryption, and availability of personal data. 应用适当的控制措施：实施适当的和技术组织措施来确保数据保护，如访问控制、加密和个人数据的可用性。</p> <p>5. <b>Train employees:</b> Provide training and awareness programs to employees to ensure they understand the company's data protection policies and know how to properly handle and protect personal data. 培训员工：为员工提供培训和宣传计划，确保他们了解公司的数据保护政策，并知道如何正确处理和保护个人数据。</p> <p>6. <b>Confer with supervisory authorities:</b> Consult with data protection supervisory authorities in the event of a data breach or other data protection incident, and provide timely and accurate information. 向监管机构咨询：在发生数据泄露或其他数据保护事件时，向监管机构咨询并提供及时准确的信息。</p>

Figure 5: Mission1



Measures that are suited for ensuring that data collected for different purposes can be kept separate during processing. This can be ensured, for example, by the logical and physical separation of the data. 确保基于不同目的收集的数据在处理过程中可以分开保存的措施。例如，可以通过数据的逻辑和物理分离来确保这一点。

Technical measures 技术措施	Organisational measures 组织措施
Separation of productive and test environments 生产环境和测试环境分离	Control via the authorisation concept 通过授权机制进行控制
Physical separation (systems / databases / data carriers) 物理隔离（系统 / 数据库 / 数据载体）	Specification of database rights 数据库权限规范
Multitenancy of relevant applications	Data records provided with purpose attributes

Figure 6: Mission1 : resource

### • Mission 2 : ISO/IEC 27001 standards transition

My second assignment focused on the transition of ISO/IEC 27001 standards from version 2013 to version 2022. The objective is to help the company make this transition in order to comply with the latest requirements of the standard. Here are the main actions undertaken as part of this mission:

- Reading the two versions of ISO/IEC 27001 (2013 and 2022) .
- Comparison of the two versions: I have carried out an in-depth analysis of the differences between the 2013 and 2022 versions of the ISO/IEC 27001 standards.
- Highlighting changes: I've listed all the additions or changes I've made in a table. ( look 7)
- More detailed summary of changes: In a second document I've summarized the changes, and also listed a number of actions to help the company make this transition a reality.
- Proofreading to improve work or correct errors.

Standards need to be updated to take account of the emergence of new technologies and new safety requirements.

These assignments enabled me to acquire practical knowledge of regulations and data security, as well as developing essential skills in analyzing rather complex documents.

#### 3.4.3 Additional tasks

Search for official documents on the Internet: regulations (concerning data protection) in different countries: Japan, Russia, USA, Korea. ( voir 8 )

Annex A		
	Requirements / 要求	Changes / 变化
5.7	Threat intelligence 威胁情报	A completely new control which requires organisations to threats, and to analyse this information in order to consider where they will collect information from their own needs. In order to be better prepared a new control is required for organisations to collect information from their own needs. This will help them to better prepare for malicious software and network attacks.
5.23	Information security for use of cloud services 使用云服务的信息安全	This is a new control that requires organisations to specify, manage and administer security controls. You must also consider security matters when planning to exit the cloud. This is a new control measure, requiring organisations to have the corresponding security concepts for cloud services. In the plan to exit the cloud service.
5.30	ICT readiness for business continuity 为业务连续性做好ICT准备	This control requires that you identify ICT controls that can be expected to show objective evidence that ICT plan, including testing of ICT readiness. Given the acceptable level of activity depends heavily on the nature of the activity. This control requires you to identify ICT controls that can be expected to show objective evidence that ICT plan, including testing of ICT readiness. Given the acceptable level of activity depends heavily on the nature of the activity.
7.4	Physical security monitoring 物理安全监控	Although physical security controls are not a new concept, this mission highlights the importance of physical security in protecting sensitive data and information.

Figure 7: Mission2

法规名称 Regulations	地区 Region
《个人信息保护法》 Act on the Protection of Personal Information (APPI)	日本 Japan
《联邦数据保护法》 Federal Data Protection Act (BDSG)	德国 German
《联邦个人数据保护法》 The Federal Law on the Protection of Personal Data held by Private Parties	墨西哥 Mexico
《斯洛伐克数据保护法》 The Slovak Data Protection Act	斯洛伐克 Slovakia
《伊利诺伊州生物识别隐私法》 The Illinois Biometric Privacy Act	美国 America
《俄亥俄州数据保护法案》 The Ohio Data Protection Act	美国 America
《个人信息保护法》 Act on the Protection of Personal Information (APPI)	韩国 Korea
《信息、信息技术和信息保护法》 Information, Information Technology and Information Protection Act	俄罗斯 Russia
《联邦个人数据保护法》 The Federal Law on the Protection of Personal Data held by Private Parties	俄罗斯 Russia
《个人数据处理规定》 Personal data processing regulations	俄罗斯 Russia

Figure 8: small mission

#### 3.4.4 Difficulties encountered

The language barrier was the biggest difficulty, even though I speak fluent Chinese with my parents, but speaking Chinese in everyday life and speaking Chinese in a professional environment are two different things.

#### 3.4.5 What I learned during my internship

My internship at Fuyao was an extremely rewarding experience. Here are the main things I learned from this professional experience:

- **In-depth knowledge of the GDPR :** This assignment enabled me to develop my skills in regulatory analysis and to understand the importance of protecting personal data.  
It's reassuring to see that Europe is not taking this lightly.
- **Expertise in ISO/IEC 27001 standards :** Continuing on from Mission 1, this second mission enabled me to gain an in-depth understanding of ISO/IEC 27001 standards and their importance in ensuring the protection of sensitive data and information.

- **Information analysis and synthesis** : Throughout my internship, I was required to read, analyze and synthesize complex documents related to regulations and standards. This regular practice has enabled me to improve and refine the critical reading skills I've acquired throughout my academic career, as well as my ability to analyze information and write clear, concise reports.
- **Better mastery of the Chinese language** : This trip to China in general has enabled me to improve my Chinese considerably. It's a learning experience of great importance and, above all, of great value. Indeed, knowledge of another language is not negligible, especially in a professional environment, which can be a major asset.
- **Better command of the English language** : I read regulations and standards for 2 months in English, and I can assure you that this improves your English, especially in a professional environment.

## 4 Conclusion

It was an extremely enriching experience. This first immersion in a professional environment within a large company such as Fuyao (a heavyweight in its field) was an exceptional opportunity that enabled me to acquire invaluable skills. During my internship, I was able to put into practice my academic knowledge in terms of document analysis.

Finally, I'd like to express my gratitude to the entire Fuyao team for their support and guidance throughout my internship. Their expertise, advice and kindness made this internship a pleasant and enjoyable experience.

In conclusion, I am grateful to Fuyao for this enriching and formative experience.

## **References**

<http://www.fuyaogroup.com/en/>