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## I) Introduction

My name is Nuri UCAR and I am 22 years old, currently student from University of Reims. I study IT especially in the web, mobile and industrial development. Before that, I studied in high school where I had my science graduate and then in the University of Reims where I had my IT graduate.

I applied for this company because the company was searching a web developer to do websites for few clients. Moreover, I had the opportunity to work in an industry which have the latest technology in robotics.

## II) General presentation of the sector and the company's historical background

USM2i means (*Ucar Service Maintenance Industriel Informatique*) which means in English *Ucar Service Maintenance Industrial IT*. Obviously Ucar is the last name of the company's founder, Ucar Frédéric. He created his enterprise in May 2016, his workshop is located at in France in Yzeure city. He is specialized in the automation, robotic and in industrial computing. He installed new production lines for Renault France at Cléon and for Renault Spain at Valladolid. He also embarked on surveillance systems for cattle. He analyze, design, install and troubleshoot the surveillance systems.

## III) General presentation of company (type/sector, affiliates, products, number of employees, various roles of people, various departments)

USM2i belongs to the 3<sup>rd</sup> sector, services. My tutor is the only employee in the company, more me in internship. He sells professional surveillance systems. They are two departments, the first one is the Industrial Solution department and the second one is the IT Solution department which I'm affected.

## IV) Presentation of my department and workspace

I work in the department of R&D in IT. I provide web, mobile, hosting solutions to the companies who want to have a web solution. The workspace is a room which you got two desktops, one for my tutor and one for me. They are also all the tools to work in an industry, a lot of stuffs. Moreover there is a compartment with all the surveillance systems.

## V) Missions and personal experience

My first mission was to create a model for an e-commerce website. This concerned a company that wanted to sell medical displacement products. There was no follow-up because he responded too late to our solutions. Perhaps I will devote myself to it after the internship.

My second mission was to create a web application to a company to bring them new solution to manage their group and have more features interacting with their customers. This company works in metallurgy and has iron coil stocks. Before they were using Excel which is a spreadsheet and Dropbox which is a cloud web storage solution to manage their stock of coil with others companies who belong to the group. So I analyzed their way of proceeding, and I started to create a database and the web application. They joined the solution and we worked together to bring more features and new concept that we can't have on a simple spreadsheet. After couple of week of development, I finished the project and I bring them a hosting solution. Currently the web application is hosted at this address: <https://b-coil.fr>.

My third mission was with the same company, I developed a web application in the same architecture as the previous one. But this time, it was to manage the production and be more user-friendly than what they had before (Access Database). The web application is hosted in local on their server.

I will surely redevelop their website showcase after the internship.

My fourth and last mission will be to deepen my knowledge of industrial development, and develop industrial programs for automata and robots. Tutor and I will also set up the machines at the machine builder. We will move to Besançon where is located FSA (Fabricom Systèmes d'Assemblage) to realize this project.

FSA: <https://www.fabricomautomation.com/index.php>