

Academic Year 2014-2015 Yuan Ze University Department of Industrial Engineering and Management Overseas Academic Visiting Program Report

The program was led by professor Chin-Mei Chou from the department of Industrial Of Management(IEM). Students had visited Chiba Institute of Technology(CIT), National Institute of Advanced Industrial Science and Technology, and the factory of Nissan which were located at Japan at March 23 to 27 2015.

The goals were to understand the status of Industry and the results of industrial education nowadays in Japan. The first impression of CIT was clean. At the moment students entered the lab of professor Wakabayashi, the sounds of praise were everywhere. Professor briefly explained how the equipments worked. The major purpose of the facilities were to simulate different atmospheric environment, to found out if there were any difference when testers played sports under different conditions.



Professor Wakabayashi simply explained his research from the beginning and invited students to participate the additional studies during summer. He wished that YZU and CIT could maintain the great relationship. After that, professor took students for a walk inside the campus and students surprisingly discovered that every Japanese structure maintained their tradition – neat. And because of the spirit, the students could learn not only knowledge but manners.



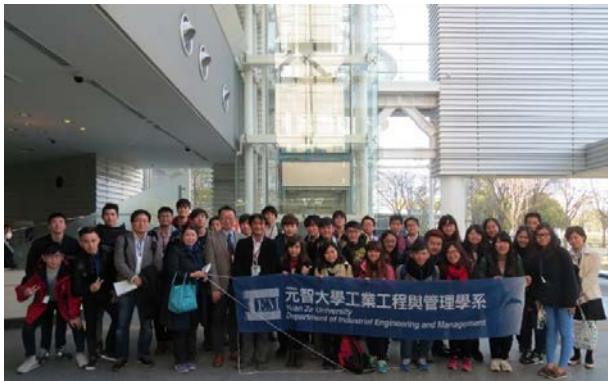


The second place was Nissan factory which was located at Yokohama, Japan. There were many tiny models of their products and lots of interesting interactive devices set out at the showcase. Of course, some cars were provided for experiencing. After a simply briefing, students had a browse from the dock to warehouse

gathering parts around the factory, taking bus which was prepared by Nissan. In addition, the company also allowed us to explore inside the factory so students could practically understand how production line actually work. There was no peculiar smell but attentively work inside the factory. Everything was proficient. Our guide had also told us that Nissan was the first company who could produce many items with one production line with pride. And indeed, no one could underestimate on Japan industry.



There was one implement which especially caught our sight called Automatic Guided Vehicle (AGV). It activated by sensors combined with programs set in beginning. When materials were depleted, sensors on boxes will notify AGV to supplement automatically. In conclusion, Nissan really made full use of limited resources to magnify the profit they could gain. As a complete system company, Nissan truly made others to realize a company could not only take profit as goal but also take good care on qualities and corporate cultures.



Finally, we arrived National Institute of Advanced Industrial Science and Technology(AIST). It was extremely famous on robotic technology and it took sustainable and economic development as their mission. It was located in Odaiba, Tokyo – A land gave birth to hi-tech

of national projects. The laboratory students had visited was major on humans joint and four limbs. It also developed specific products against the children. After the introduction given from members of the lab, Students realized that every single fund supporting the projects was fight from their own. The government only took a role of assistant during the process. And students had also learned that to leave for higher industrial domains, they should keep the hard effort and crush resistance constantly.



Throughout the Japanese culture, people were the main purpose to develop products. From consumer goods to structures of human living, everything was processed after a series of precise calculation and design. On account of this, students discovered that avoiding flashy, trying not to cause trouble maybe the reasons why Japan are now still standing on the apex of the world. The journey will come to an end after all, but the impacts of the culture on students will last forever.

After the visiting, we deeply experienced the sweat and great efforts behind a successful experiment or a perfect research. Perhaps there weren't much a person could change. But if everyone could be one of the pivots of a giant, nothing was impossible. We also learned that we should stay modest and hungry and then we could survive in which the competitive global village we have live.

1011320 Ching-Te Hsieh