

School of Electrical Engineering Visit Report

Industry 4.0 by Intel Corporation



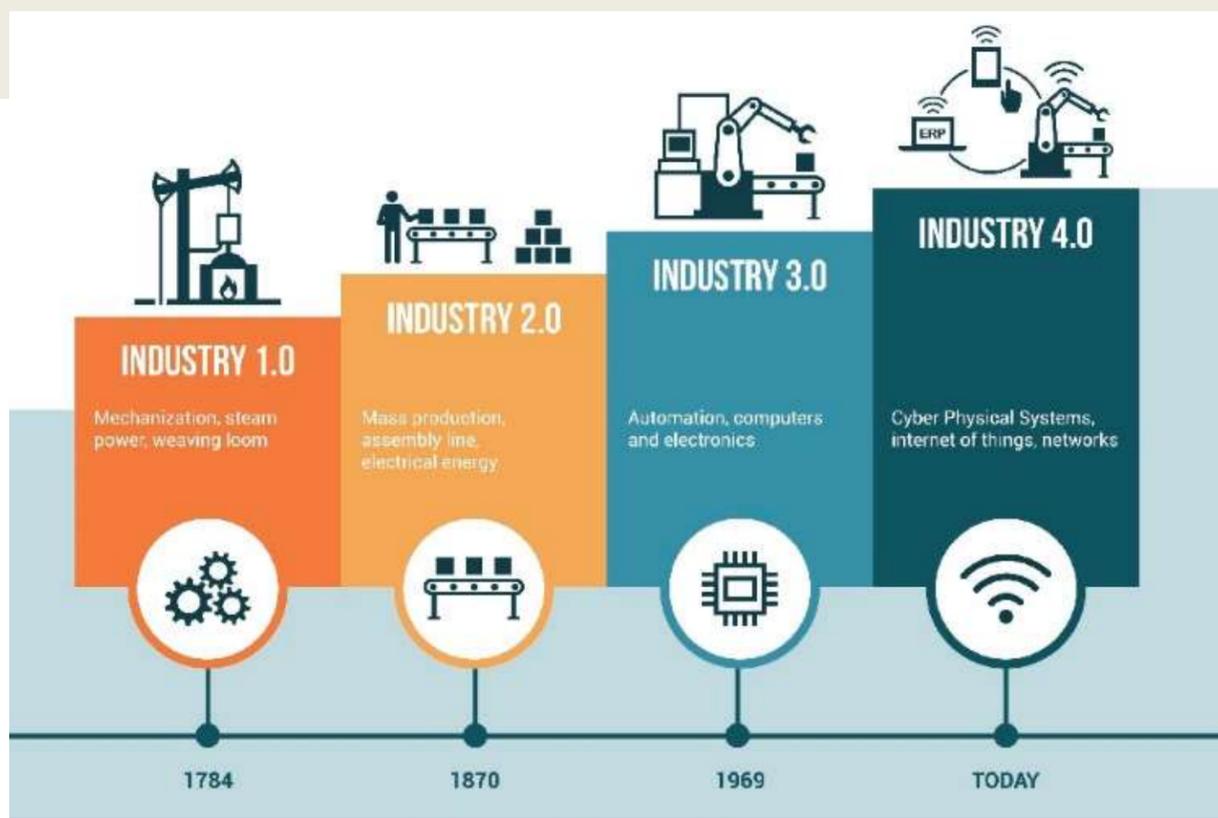
Faculty of Electrical Engineering

On Sunday, 18th of November 2018, the Section 05 for Technology and Information Systems(SCSP1513) subjects under Dr Nor Azizah Binti Saadon' has made a visit to School of Electrical Engineering. The main purpose of the visit was to introduced and give some information for the students about Industry 4.0.

The participants are consisted of the students from School of Computing(SC), School of Electrical Engineering and student from other school. On the visit, the students were divided into two group. Group A is consisted of Internet of Things talk, while Group B is consisted of Industry 4.0 talk. My team have chosen to be in group B. On 2.00 P.M, students that have arrived were asked to signed for the attendance.



Intel Corp Malaysia



THE EVOLUTION OF INDUSTRY

At exactly 2.15 P.M, the visit was started with a talk. The speaker of the talk is Thomas ool, is a product marketing and engineering for Intel Corporation. Purpose, benefit and promise of Industry 4.0 are the topic that discussed by Thomas on this talk. Based on the talk, the purpose of Industry 4.0 is to improve the current industry. This is due to a few factor such as manufacturing industry disruption. The reasons are the rise of the consumer class, rise of the automation in emerging markets, mass customization and environmental regulation. Next, the benefit of the evolution of industry to Industry 4.0 are improving the productivity, reduce cost, quality control and innovate faster. Industry 4.0 able to improving the productivity by optimizing the equipment effectiveness and maintenance, improve efficiency and effectiveness through human and

machine collaboration. Industry 4.0 reduce the cost by predicting the maintenance, real-time production monitoring and control. Other than that, Industry 4.0 can control the quality of the product by reducing or eliminate customers returns. Lastly, we can innovate faster due to new innovation such as 3D printing, remote expert and collaboration technologies. Besides that, the speaker of the talk also mentions about the promise of Industry 4.0 for a greater future. The reason is that on the new industry, data and algorithm are driven. We have a massive raw data and better algorithm. "Data is like a new oil", Thomas. On the other hand, most of the product are software defined in the new industry. The deconfiguration of systems and virtualization will getting bigger. Moreover, new industry is fast and deterministic. This is because of everything will only use real time networks, real time systems and time synchronization across machine.

After the talk was finished at 4.00 P.M, the students, lecturers and the speaker, MR Thomas were having a photo session together. As an appreciation to the speaker, the management of Faculty of Electrical Engineering gave MR Thomas appreciation prizes. The visit was end at 4.10 P.M.

As a conclusion, even the visit was short, it was very meaningful and especially very helpful for me as a students taking software engineering course as a major. The visit is just fine, but if it considering a few upgrade it must be a great visit for everyone. Specifically, the upgrade that I want to suggest for the program management are to make sure that the venue is large enough so that everyone can fit in there. This is because there are a few students who cannot enter the hall for the talk. Next, the thing that can be upgraded is the to make sure that the venue is working properly. This is due to the condition of the chair at the back of the hall not even close to be use for the students. The third suggestion that I want to suggest is to upgrading the PA systems. As the students that sit on the back, we are barely hearing the thing that being said by the speaker. If the management taking consider of this thing, the visit will be perfect.

Lastly, even with the flaws the whole visit is great. One of the reason is the speaker that being invited are really good at presenting making me avoid for getting sleep even for a second. I have managed to gain information about Industry 4.0 and it making me easier to know how the world works in this modern era. In addition, I can apply the knowledge I gain from the visit to my study, because Industry 4.0 is all about the using of computer based program. This will make my study more easier and fun.