

Leveraging Engineering Education and Industrial Training: Learning from a Case Study

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Abstract : The explosive of technology advances has opened up many avenues of career options for engineering graduates. Hence, how relevant their learning at university is very much dependent on their actual jobs. Bridging the gap between education and industrial practice is important, but it also becomes evident how both engineering education and industrial training can be leveraged at the same time and balance between what students should grasp at university and what they can be continuously trained at the working environment. Through a case study of developing a commercial product, this paper presents the required level of depth of technical knowledge and skills for some typical engineering jobs (for mechanical/materials engineering). It highlights the necessary collaboration for industry, university, and accreditation bodies to work together to nurture the next generation of engineers.

Keywords : leverage, collaboration, career, industry, engineering education

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