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Lay-out Proposal in Capstone Project, Supported by Virtual Reality to get the K ABET Outcome

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Abstract: The final outcome for ABET says: “An ability to use the techniques, skills and modern engineering tools necessary for engineering practice”. Taking this sentence as a reference, we can say that all the Engineer Programs should look for developing to their students the ability to adaptation to any environment. Nowadays we are being part of a cultural change in industry, this change has been called “Industry 4.0”, and all the use of software has become necessary for elaborating proposals by any Engineer. We think that Industrial Engineer has to improve products or propose new products taking reference from all the supply chain, so lay-out becomes a very important component because we define all the intern process; adding to it the use of the Virtual Reality for making a better impact for all the team members. CAD software help to support this step of the project, we usually request Google Sketch Up, because is free-cost and easy to understand for any engineer student, but if the students find another software that allow them to make a practical lay-out, we support their project in this tool. We can see the evolution of the abilities and skills for the new generation of engineers in this kind of projects and engineer tools, this way we can guarantee our students are getting the K outcome for ABET.

Keywords: Virtual reality, ABET, CAD