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## Incorporating an engineering project into an augmented Physics course

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### Abstract content <br> &nbsp; (Max 300 words)

The Engineering Augmented Degree Programme (ENGAGE) is a five-year BEng degree comprising mainstream and additional modules. The additional modules run concurrently with the mainstream modules and focus on background knowledge, conceptual understanding and problem-solving skills. In the Additional Physics module we include an engineering project called, “Skyscraper”, developed in the USA as part of the CDIO (Conceive-Design-Implement-Operate) approach to engineering education. After students study centre of mass in Physics, they work in groups to build a “Skyscraper” out of extruded polystyrene and pencils. They must build it on time, within budget and according to given criteria, thus getting a feel for the engineering process as well seeing an application of physics concepts. In this paper we will describe the activity and provide results from students’ reports and reflection papers.

### Apply to be<br> consider for a student <br> &nbsp; award (Yes / No)?

No

### Would you like to <br> submit a short paper <br> for the Conference <br> Proceedings (Yes / No)?

No

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