

Smart manufacturing: Tec and digital firm to design syllabus



American computer software and services company **PTC** and professors from the **School of Engineering and Sciences (EIC)** in the **Tec's** Mexico City Region are collaborating on the design of a syllabus for smart manufacturing, which focuses on augmented reality and industrial internet of things technologies.

David Romero, a research professor in advanced manufacturing from the **Tec's** Mexico City campus, said they are doing so in order to **better train and prepare students from the Tec** in the light of steps being taken in Mexico to digitalize and improve competitiveness of the manufacturing sector nationwide for Industry 4.0.

As part of the **TEC-PTC** collaboration, they want this syllabus to include the use of the **"ThingWorx IIoT"** platform and the **"Vuforia Studio"** solutions package for undergraduate and graduate programs in **mechanical, mechatronic, and industrial engineering**.



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The **EIC** community will therefore be able to work with **ThingWorx IIoT** to **monitor and analyze data from selected machines** at the smart manufacturing laboratory on Mexico City campus through the industrial internet of things.

Students, professors, and researchers will also have access to **Vuforia Studio** to **develop and apply interactive augmented reality experiences** on certain work stations.

"We're excited to collaborate with the Tec in getting our software into the hands of their professors and students," said **Peter Zink**, Director of Academic Relations at **PTC**.

"Preparing these students to face the challenges and opportunities of the Industry 4.0 era by utilizing PTC's technology platforms is a unique opportunity for both organizations," added **the director**.



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Under this collaboration agreement, **PTC** contributed resources for the **research and development of solutions** for Industry 4.0.

Professor David Romero from the **Advanced Manufacturing Research Group** at the **Tec** said that this collaboration with **PTC** will contribute significantly to **increasing the employability of students in the job market**, as well as helping domestic industry to **push the manufacturing sector** towards digital transformation.

“We’re very grateful to have PTC on board to help us tackle the digital skills gap that the Mexican industrial workforce is facing today,” **pointed out the professor** from the **Tec’s** Mexico City campus.

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