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JPSCAD + "Lema"

JPSCAD

JPSCAD started as a freelancing project to provide Computer Aided Design services to small costumers, focusing only on the 2D and 3D services. With the constant need of costumers to improve their designs and with the University knowledge acquired, the service of finite element simulations started. Firstly focusing on the structural side of FEM simulations

With the need to perform real world validations of customers designs, several custom instruments and data acquisition equipment had to be made. With this experience gained in the field of electronics, the service of embedded systems design began. With its main focus on small systems for handheld electronics

Through the years and with several costumers satisfied around the globe, varying from simple University projects to commercial products, JPSCAD continues to improve and offers computer aided engineering services. Its main goal is to provide custom solutions to the integral design of a product

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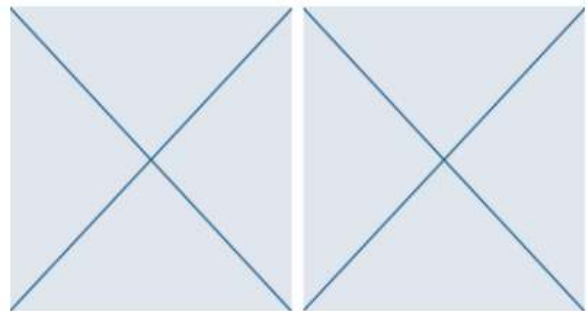
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☐ Yes, I would like both ☐ Only the Book

Simulations



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Description de la Imagen

Some Custom solutions made to solve engineering problems



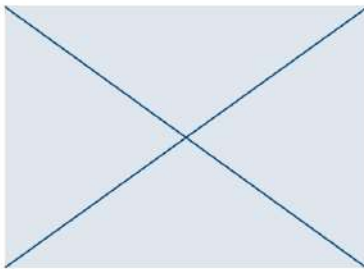
During the development of a product, one of the most important parameters to know about it are the loads that will have to withstand. Custom data acquisition equipment was designed to solve this problem during the development of the Plexiclick. This custom hardware proved to be highly useful for dynamic load measurements, vibrations, and allows us to gather useful information to determine the full life-cycle of the product.

All of the above was achieved maintaining a very low cost due to the modularity of the system and its off the shelf approach to sensors and systems. This DAQ solution proved to be as much as 5 times more economical than the usual laboratory instruments while maintaining acceptable results

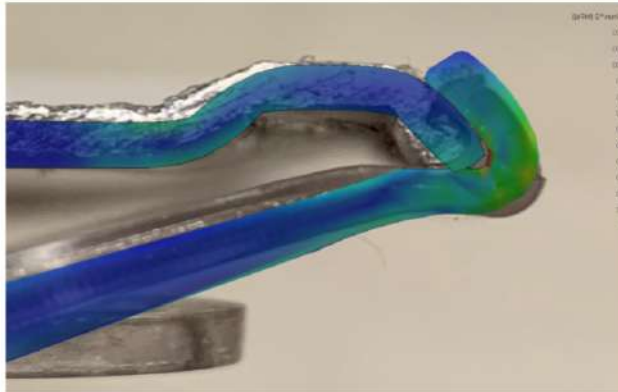
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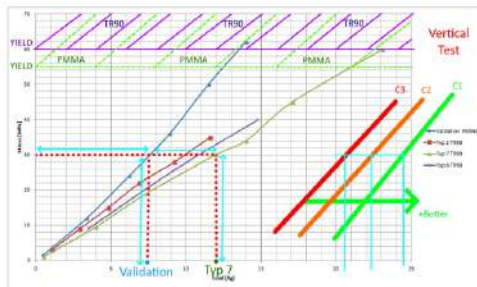
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Why Computer Simulations? Plexiclick, a Success Case!



One of the biggest challenges while designing a new product, is to ensure its structural integrity during its whole life-cycle. Specially in automotive applications that face the harsh conditions of the enviroment while being under dynamic loads. For this reason, the best solution instead of building countless and expensive prototypes, is to use the power of computers. With this case, several design improvements were performed. FEM allowed this costumer to decide which plastic material was the best for its product, and with the proposed change in its structural design and improvement of 60% mor strength was achieved.



Would you like to see how does a well designed product looks like?



Some of the services availables are the following

Service	Detail	Advantages
Linear Simulations	Simulations under the linear assumption, for Small Displacements. Where the relation between Stress-Strain is linear. There is also independent from Load History, and load overlap is possible.	<ul style="list-style-type: none"> 1. Fastest Simulation 2. Requires less Computational Resources 3. High quality results for certain materials 4. Most Economical option 5. Lower chances of Inaccuracies
Non-Linear Simulations	Simulations outside the linear assumption, where the stress-strain relationship stops being linear. Allows plastic and elasto-plastic deformation of the materials, as well as large displacements.	<ul style="list-style-type: none"> 1. Allows Non-Linear behavior 2. Allows working with a wider range of materials 3. Best suited for Ultimate Loads 4. Best and most accurate results 5. Allows larger and damage simulations
Modal Simulations	Model Simulations allow the study of the frequency response of the system to a certain load.	<ul style="list-style-type: none"> 1. Calculates the frequency response of the system 2. Allows us to estimate the resonance frequency 3. It is extremely important to understand dynamic systems

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-ParteA- <main>

Finite Element Simulations -ParteA1- <h3>

<!--ParteA1-->

FEA img -ParteA1_01-

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Embebedd Design -ParteA2- <h3>

<!--ParteA2-->

ED img -ParteB1_01-

Descripción de la Imagen -TextoParteA2- <p>

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