

# DAVID SANCHEZ CALVO, MECHANICAL ENGINEER

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<b>Profile:</b>	<b>Talented mechanical engineer specialized in machinery calculus and design.</b> Experienced in CAD/CAE mechanical design, FEA applied to motorbike parts design. Multilingual (Spanish & English). Available for relocation and extensive travel.
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<b>Key Skills:</b>	<b>Software:</b> <ul style="list-style-type: none"><li>▶ I-DEAS</li><li>▶ Solid Works</li><li>▶ Autocad</li><li>▶ Visual Basic</li></ul>	<b>Engineering:</b> <ul style="list-style-type: none"><li>▶ Real experience in racing motorbike design and construction.</li><li>▶ Casted, extruded, machined and sheetmetal parts.</li><li>▶ Mechanism analysis.</li><li>▶ ISO 9001</li></ul>
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<b>Personal experience about motorbikes:</b>	<ul style="list-style-type: none"><li>▶ <b>Racing motorbike design and construction</b>, 01/99 to Present. Current project: Design (using SolidWorks software) and construction of a race bike machine with alternative front end and Honda CBR 954 engine. Previous project involved the design (using I-DEAS software), and construction of an alternative front end 250 GP machine. I canceled the project when the 250 category disappeared from the Spanish Championship (CEV).</li><li>▶ <b>Book translation</b>, 2003. Translation from English to Spanish of the book "Motorcycle handling and chassis design, the art and science", written by Tony Foale.</li><li>▶ <b>Final thesis for the university</b>, 06/96 to 06/97. "Mechanism numerical simulation applied to the kinematic and dynamic motorbikes study". This was a one year practice job in the Aragón Technical Institute, using I-DEAS, COMPAMM, MATLAB and ACSL software.</li><li>▶ <b>Federated MotoX rider</b>, 1992 This year I raced the 250 cc. MotoX spanish championship.</li></ul>
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<b>Professional experience:</b>	<ul style="list-style-type: none"><li>▶ <b>SEDECAL, Madrid, Spain. ISO 9001 and EN 46001 certified.</b> <b>X-Ray equipment designer</b>, 01/02 to Present. Product engineer in R&amp;D, designing X-Ray systems using Solid Works and Autocad. Prototype design, assembly and testing. Product transfer to mass production.</li><li>▶ <b>SUINSA, Madrid, Spain. ISO 9001 and EN 46001 certified.</b> <b>X-Ray and nuclear medical equipment designer</b>, 09/99 to 12/01. Product engineer in R&amp;D, designing X-Ray and nuclear medical systems using I-DEAS. Responsible of the NOVA project, a ceiling TubeStand X-Ray System, supervising five-member team of mechanical, electronic and software engineers. Prototype design, assembly and testing. Narrow contact with prototype workshops. Lots of FEM analysis for structural components. Experience in design transfer to mass production.</li></ul>
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	<p>▶ <b>IGH, Madrid, Spain.</b>  <b>Bulldozer machinery designer.</b> 06/99 to 09/99          Designing customized bulldozer machinery parts. Hydraulic hammer supports, bulldozer arms, bulldozer spoons, etc. The fabrication was also in this company, so the contact with the workshops was very narrow.</p>
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<b>Education:</b>	<p>▶ <b>The University of Zaragoza (Spain). 1992 to 1996</b>          Mechanical engineer specialized in machinery calculus and design.          ▶ <b>ETI. Escuela Tecnico Industrial (Tudela, Navarra, Spain). 1987 to 1992. FP-2 Machine Tools Speciality.</b>          5 years of practical exercises with machine tools (lathe, milling machine, welding, etc).</p>
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<b>Completed coursework includes:</b>	<p>▶ <b>University Carlos III of Madrid. 1997.</b>          "Advanced extensometric technics in mechanical engineering". (110 hours).          ▶ <b>The University of Zaragoza. 1995</b>          Extensometry course. (25 hours).          ▶ <b>The University of Zaragoza. 1995</b>          Finite element method course. (50 hours).</p>
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