

Xosé Manuel Carreira Rodríguez

Civil engineer | Computer models for structures and fluids | Multilingual and versatile.

xmcarreira@yahoo.com

Summary

Growing up as a kid, I wanted to be like Leonardo da Vinci: I loved to build strange and unusual things and test their limits. Now, I am a versatile engineer passionate about computer modelling and simulation for the industrial and natural environment. Drawing on the experience accrued over more than a decade of design experience with a wide variety of structures and water infrastructures, I am keen on computational methods such as the Finite Element Analysis.

By combining a sound knowledge of civil engineering and computer science with great social skills, I try my best to meet both clients' desires and community needs. Moreover, as a chartered engineer (CEng MICE), Eur Ing and member of ASME, my commitment to lifelong learning and continuous professional development is firm: I have taken distance and blended learning courses in some of the most prestigious engineering and project management institutions.

Do not hesitate to contact me to ask for professional for professional advice.

Experience

Civil engineer at Initec (Técnicas Reunidas)

April 2010 - Present (7 years)

Structural, mechanical and geotechnical finite element analyst.

Structural and water engineer at IDOM

September 2006 - April 2010 (3 years 8 months)

Structural and water engineer at IDOM

November 2004 - July 2005 (9 months)

Geotechnical apprentice at EPTISA

July 2001 - August 2001 (2 months)

Education

Universidade Aberta

Doctorate, Sustainability Studies, 2014 - 2020

Activities and Societies: Associação Académica da Universidade Aberta.

Universidad Nacional de Educación a Distancia - U.N.E.D.

Master of Research, Artificial Intelligence, 2015 - 2018

Universidad Nacional de Educación a Distancia - U.N.E.D.

Bachelor's degree, Computer Science, 2003 - 2008

Activities and Societies: Member of Colegio de Ingenieros Técnicos en Informática (CLM, Spain) #129.

Swansea University

Master of Science (MSc), Computer Modelling and Finite Elements, 2005 - 2006

Activities and Societies: Chartered member of the UK Institution of Civil Engineers CEng MICE #6330260.

Member of ASME #100102703.

Universidad de A Coruna

Master of Engineering (MEng), Civil engineering, 1997 - 2004

Activities and Societies: FEANI registered Eur Ing #32130. Member of Colegio de Ingenieros de Caminos, Canales y Puertos (Spain) #22197.

Languages

English	(Full professional proficiency)
Portuguese	(Full professional proficiency)
Italian	(Professional working proficiency)
French	(Professional working proficiency)
Spanish	(Native or bilingual proficiency)
Galician	(Native or bilingual proficiency)

Skills & Expertise

Civil Engineering
Finite Element Analysis
Structural Analysis
Engineering
Steel Structures
SAP2000
AutoCAD
Spanish
English
Portuguese
Structural Engineering
Sustainable Engineering
Sustainable Design
Water Systems
Floodplain Analysis
Concrete
Computational Fluid Dynamics (CFD)
Geotechnical Engineering
Foundation Design
Calculations
Seismic Design

EPC
Simulations
Abaqus
CAD
Engineering Design
STAAD
LNG
Earthquake Engineering
Engineering Management
French
Oil&Gas
Italian
Computational Mechanics
FEED
ANSYS

Projects

Deskia Consult

December 2015 to Present

Members:Alba María Sandá Estévez, Xosé Manuel Carreira Rodríguez

Business & engineering consultancy.

Startup seed award by COIE-UNED, 2015.

Association of engineering for the common good

February 2013 to December 2015

Members:Miguel Prados Rodríguez, Raquel Pérez Laínez, Xosé Manuel Carreira Rodríguez, #Casimiro Núñez Micó, Daniel Correa Vázquez, Santiago S. Casado González-Gallego, Jon Diéguez, Carlos Severiano Herranz, Daniel Romero Vallmajor, Antonio Arenas Molina, Inés Gutiérrez Rodríguez, Juan Miguel Marabel González, Alberto Centeno Polo, Manuel Medina Albero

Nonprofit organization whose aim is the promotion of civil engineering, sustainable energy and the economy of the common good.

Interests

Structures, Water, Computing, Sustainability,Languages, People

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16 people have recommended Xosé Manuel

"Xose has always excelled in his role. Xose is especially suitable for complex problems requiring out of box thinking. Xose possesses the ultimate "can do" attitude while taking on all tasks with a positive energy and a smile. I am very confident that Xose has the intelligence, work ethic and knowledge to add value wherever he works."

— **David G. Alcantara**, managed Xosé Manuel at Initec (Tecnicas Reunidas)

"Xose Manuel es un compañero de trabajo con un alto nivel de profesionalidad y un adalid natural. Es una persona prudente y honesta. Su mayor virtud es dar respuestas concretas y certeras a las dificultades encontradas en los proyectos de nuestra empresa. Se desenvuelve muy bien bajo presión y en la toma de decisiones es correcto. Tiene buena habilidad para trabajar en grupo y perfecciona los procesos de diseños y cálculos de cualquier componente en el área de la ingeniería."

— **Harry Larice**, worked directly with Xosé Manuel at Initec (Tecnicas Reunidas)

"Xose is very knowledgeable structural engineer. He is approachable, humble and has a detailed knowledge of techniques in the field of engineering. He is a great asset for any company."

— **ROBERT MAGO**, worked directly with Xosé Manuel at Initec (Tecnicas Reunidas)

"I met Xose Manuel some years ago while we both were studying our Computer Science degree at UNED. He was a valuable classmate, a natural leader and a extremely skilled person at whatever he tries to do. I feel quite lucky to have shared so valuable time with him. What else can I say?...It is worthy to work with him. Don't lose the chance !!"

— **Alejandro Mora Rodríguez**, *Bankia Financial Market Back Office, GFI Informatique*, studied with Xosé Manuel at Initec (Tecnicas Reunidas)

"I was honored to share with Xose an alternative candidate for the Board of Governors of the Institution of Civil Engineers (Colegio). He organized the campaign strategy based on the domain he owns of communication in social networks and knowledge of the needs of colleagues to get the maximum number of supports."

— **Tomas Herrera Suarez**, worked directly with Xosé Manuel at Initec (Tecnicas Reunidas)

"Excelente calculista y mejor compañero, siempre me gustó el detalle con el que preparaba la documentación, buen trabajo en equipo y adaptabilidad a los plazos, pero lo mejor es que sabía salir adelante sin un mal gesto, un buen ingeniero en el amplio sentido de la palabra."

— **Jesús Pablo Sánchez Sánchez**, managed Xosé Manuel at IDOM

"Xose is an expertised engineer, with good communication skills, cooperative, methodical and focused on his work."

— **Jorge Olalde**, worked with Xosé Manuel at IDOM

"I have co worked many years with Xosé at Idom Engineering, where I could appreciate professionalism in carrying out his job calculating structures and dealing with unexpected troubles. He is able to get over any difficulties because of his knowledge and love for a well done job. Excellent person , always willing to help and teach anyone who ask him, despite of the time spent on it."

— **Jesús Martín Gil**, worked directly with Xosé Manuel at IDOM

"Xose Manuel is a superb structural engineer, with advanced skills in mathematic simulations and a wide experience in structural typologies. He is really enthusiastic about his work and always expecting new challenges"

— **José Angel Calvo Caneiro**, worked with Xosé Manuel at IDOM

"I worked with Xose Manuel in a quite complicated project; he showed his hability to manage difficult problems and his great structural knowledge. In addition he made great efforts to finish his work on time. In conclusion, he is not only one of the best structural engineers I have ever met, but also a great work mate."

— **Javier Calvente Muñoz**, worked directly with Xosé Manuel at IDOM

"Xose Manuel is prominent structural engineer with a wide range of experience in structural typologies and their analysis."

— **Jorge Bernabeu**, worked directly with Xosé Manuel at IDOM

"Conheci o Xosé no curso de Doutoramento em Sustentabilidade Social e Desenvolvimento, onde se destacou por ser aplicado, trabalhador, responsável, resiliente, sensato, assertivo e pró-ativo, e com bons conhecimentos técnicos e teóricos, em especial nas áreas de engenharia sustentável, análise computacional da dinâmica de fluidos, sistemas hídricos e riscos de cheias. Mostrou ter importantes qualidades humanas, grande honestidade e verticalidade, enorme capacidade crítica e refletiva, e sempre esteve disponível para

colaborar e ajudar, mostrando ser “amigo do seu amigo”. Por todas essas características que o distinguem, entre muitas outras que poderia invocar, é justo dar este testemunho público, de que é totalmente merecedor."

— **Marco Santos**, studied with Xosé Manuel at Universidade Aberta

"Xose Manuel Carreira estudio en la uned, una de sus carreras, obteniendo muy buenos resultados. Además formó parte de la delegación estudiantil de la misma, consiguiendo junto a otros compañeros grandes logros y retos. "

— **Sara Garcia Diaz**, studied with Xosé Manuel at Universidad Nacional de Educación a Distancia - U.N.E.D.

"In my contact with Xose Manuel I have found him to be one of the most knowledgeable and interested Structural Engineers I ever met. His working capacity and Engineering intuition exceeded by far the average MSc student in his Masters"

— **Ricardo Teixeira**, studied with Xosé Manuel at Swansea University

"I have studied with Xosé at the University. He was by far one of the brightest mates I have met during my stay there, much more capable and intelligent than the average. A person to admire and respect, with an insatiable curiosity for every field of knowledge and science in general."

— **Javier Fondevila**, studied with Xosé Manuel at Universidad de A Coruna

"I have known Xosé Manuel for many years, since his first year at University. What amazes me most about him is that after so many years of studying, he still has the same eagerness to learn new things and put them into practice that he had when he started his first degree."

— **Iago Muíños Pantín**, studied with Xosé Manuel at Universidad de A Coruna

[Contact Xosé Manuel on LinkedIn](#)