

# Javier Gras Guisado

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## Summary

*Working at Ferrovial Agroman Madrid Technical Office in variety of Transportation Infrastructure Projects. Been involved in several international projects as roadway design manager, currently working as bridge design manager in tender, detail design or construction phase projects, coordinating and working in multidisciplinary teams. Coming from a double degree program with a scholarship from Illinois Institute of Technology, did his masters degree in Structural Engineering. Thrilled for innovation, developed by his own will a report to improve the productivity, efficiency and energy of his office, based in his own innovative ideas, bringing into the table Agile Methodologies like Scrum. Currently participating as a fellow in the Bioleadership Project, an urgent program to create the future of leadership, inspired by nature.*

## Personal Innovation Projects

### Technical Office Ferrovial Construction (TOFC)

#### **Nodus, Linking Knowledge — Diciembre 2020 to July 2021**

Conceived the idea and created a team to launch a platform that connects the engineers from the structural department in order to share their work and knowledge, creating a dynamic environment that is not only used for information storage, but also a technological tool that allows technical questions, discussions and a place to ask for support from other team members. The platform is currently running in the department, and it has the potential to escalate and be applied in the entire office.

### Technical Office Ferrovial Construction

#### **Productivity, Energy and Efficiency for the TOFC — April 2019 to June 2020**

Developed a report analyzing the structure and working methodologies of the company with a list of proposals to improve the performance focusing on the productivity, energy and efficiency of the Technical Office. The report contains four main chapters; Observed Problematic, Proposals by layers, Existing examples and Talent Retention. It was submitted to the company on June 2020, and it is at the moment being analyzed internally by Human Resources and Operational Efficiency department.

[Agile Methodologies](#) [Scrum](#) [Flexible Working Arrangements](#) [Talent Retention](#)

## Professional Experience

### Structures Design Manager, Ferrovial Construction Technical Office

#### **Madrid (Spain), Bratislava (Slovakia), Toowoomba (Australia)— April 2016 to present**

Working at Ferrovial headquarters technical office in the structures design department (bridge area). Coordination with the consultants from the different partnership agreements is highly needed as guiding and checking their work while making the design more efficient.

#### *Important Projects:*

- D4R7 Highway PPP in Bratislava detail design phase. Worked in the structures team as an expatriate, guiding the design of 200m span length cantilever self-launching bridges over the Danube River
- Toowoomba Second Range Crossing in Australia (900 m long girders viaduct constructed with launching gantry), giving support to the construction team
- Castilblanco Viaduct in Spain (Box Girder bridge constructed with launching gantry). Developed 'Informe Cero' report checking the structural behavior of the Launching Gantry

### Roadway Design Manager, Ferrovial Agroman Technical Office

#### **Madrid (Spain), Auckland (New Zealand) — July 2015 to April 2016**

Worked at Ferrovial headquarters technical office in the road design department.

#### *Important Projects:*

- Puhoi to Warkworth PPP in New Zealand. Worked in the preliminary design (tender design phase) as roadway design manager leading and checking the design with the main design firm Aurecon. Worked as an expatriate in New Zeland for the entire tender

### Civil Engineer, Ferrovial Agroman US Corp.

#### **Austin, USA — September 2014 to July 2015**

Preliminary design projects working in different fields such as structures, drainage, roadway design and pavement design in Transportation Infrastructure Projects. Always working from Austin office.

#### *Important Projects:*

	<ul style="list-style-type: none"> <li>• SH 288 in Houston. Worked as roadway engineer developing roadway optimization using software called Istram</li> <li>• SH 99 Grand Parkway in Houston. Worked as a roadway engineer using Microstation and Istram software</li> </ul> <p><b>Education</b></p> <p><b>Bioleadership Project Fellowship</b>  <b>Bioleadership Fellow — June 2021 to current</b>  The Bio-Leadership Fellowship is an urgent programme to create the future of leadership, inspired by nature. Transforming human system, the Fellowship is a journey for people and projects ready to take on the critical challenges of this time.</p> <p><b>Acumen University</b>  <b>System Practice Course — September to current</b>  Online course to use a systems thinking approach to move from “impossible” to impact. The main content is to learn map a complex system to gain clarity, identify specific points in the system where the impact can be done, create leverage hypotheses to describe how it will aim to create systemic change and develop a framework for learning and adapting over time as the system changes.</p> <p><b>Illinois Institute of Technology (IIT)</b>  <b>Master Degree in Structural Engineering — August 2013 to July 2014</b>  Studied at the IIT involved in a double degree program in order to obtain the IIT Structural Engineering Master and the Spanish MSc Degree</p> <p><b>Escuela de Ingenieros de Caminos, Canales y Puertos de Madrid (UPM)</b>  <b>Bachelor and MSc Degree equivalent, structures specialization — September 2008 to July 2014</b>  6 years of studies at the ETSICCP obtaining the Spanish Civil Engineering degree</p>
<p><b>Scholarships and Honors</b></p>	<p><b>Illinois Institute of Technology Scholarship</b>  <b>Chicago, USA — August 2013 to July 2014</b>  Double degree program scholarship awarded by the UPM for United States academic programs</p> <p><b>Erasmus Scholarship</b>  <b>University Libre de Bruxelles, Belgium — August 2013 to July 2014</b>  Scholarship not taken in order to go Chicago with the double degree program</p> <p><b>Academic merit scholarship, Province of Madrid</b>  <b>Madrid, Spain — Academic course 2012-2013</b>  Merit’s based academic achievements given by Madrid’s regional government</p>
<p><b>Skills</b></p>	<p><b>Computer Skills:</b> Microsoft Office (intermediate), Kumu (basic), Microstation and Geopak (intermediate), Istram Ispol (intermediate), SAP 2000 (intermediate), Fagus and Pyrus (intermediate), Autocad (intermediate), QGIS (intermediate), ArcGIS (intermediate), Mathcad (intermediate), Revit (Basic), Simulia Abaqus (basic)</p> <p><b>Personal Skills:</b> Common sense, team working, creative, innovative, regenerative leadership</p>
<p><b>Spoken Languages</b></p>	<p><b>Spanish</b>  Mother tongue</p> <p><b>English</b>  Fluent spoken and written</p>
<p><b>Activities</b></p>	<p><b>SAAC Alpine Safety Avalanche Advanced Course</b>  January 2018</p> <p><b>Sky Diving Experience</b>  July 2012</p> <p><b>Third in 100 meters race in the Madrid Championship</b>  March 2007</p> <p><b>Scuba Diving Certificate</b>  Summer 2006</p> <p><b>Spanish federate tennis player</b>  Since September 2005</p>