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|  | Felipe Ramirez  Project Planning and Controls - Staging and Scheduling Constructability Advisor |
| [Felipe.ramirez@fr2.com.au](mailto:Felipe.ramirez@fr2.com.au) |

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| **Introduction**  Felipe is a qualified architect with over 19 years’ experience in design, construction, planning, and build information management (BIM) on projects in Australia, South America and Europe.  Felipe specializes in infrastructure projects and has extensive experience in constructability, staging and planning within complex environments such as live rail corridor. He has in depth knowledge of the NSW rail network, particularly the Sydney Trains network, having been heavily involved in the preparation of constructability reports, construction staging diagrams and construction programs over the last twelve years.  Felipe has developed construction staging methodologies including definition of base logic, construction methodology reports, staging diagrams, construction programs (Primavera P6) and 3D-4D-5D modelling and analysis for numerous rail projects. He has a demonstrated ability to rationalize complex problems, contributing to improved constructability, and time and cost savings, on large infrastructure projects. |
| Professional Experience   * 2024 - FR2 – We Simplify Complexity. Project Support Services Lead * 2022 - 2024 Arch Artifex, Constructability & Digital Engineering Lead. Project Planning and controls * 2013 - 2022 – Rail Planning Services. Construction Staging Manager. Staging, Project Planning and controls. * 2005-2013 – Insesa Ingenieria / Oxer Engineering |
| **Education**   * 2021 Leader as Coach Training, [Annette Gray,](https://www.annettegray.com.au/) Australia * 2019 Certificate IV in Training and Assessment, E-learn * 2019 Certified Autodesk Revit user * 2018 Certified Primavera P6 15.2 Professional Advanced (Sydney) * 2017 Certified Bentley Synchro 4D user * 2015 Diploma of Management, Australian Pacific College * 2015 Certified Autodesk AutoCAD Professional (429486) * 2014 Advanced Diploma of Marketing, Australian Pacific College * 2011 Diploma in Innovation Management, [University Alberto Hurtado](https://www.uahurtado.cl/admision/), Chile. * 2007 Diploma in Conservation and Restoration of Heritage, University Católica Chile * 2006 Bachelor of Architecture University Finis Terrae, Chile |
| Key Expertise | Technical Skills   * Conceptualisation of complex work breakdown, planning and staging of project scope. * Construction Methodology * Construction Staging * Constructability modelling and analysis * CAD/BIM modelling and analysis * Project Management * Project Planning and Controls |

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| Project Summary  FR2 Infrastructure, 2024 – Present | Project Planning and Controls, Constructability & Digital Engineering Lead  Project experience includes:   * AFJV - Central Tunnelling Package * CPRP - Central Precinct Renewal Program * Regional Rail * TAP4 CMY (Carramar, Macquarie Fields, Yennora) * Transport Access Program Tranche 4 (TAP4) Wave 1 Package 2 - Bardwell Park and Chester Hill Stations   Responsibilities:   * Develop detailed construction methodologies for safe and efficient delivery of both Greenfield and Brownfield station and tunnel construction * Provide Support for construction planning and control. Prepare documentation to be discussed between Sydney Metro/Trains and contractors. Liaise with Sydney Metro/Trains and provide (weekly/monthly) updates into Primavera P6 TP02+ system and end of month reports. * Develop handover documentation to support the handover process between current and future contractor(s).   ARCH ARTIFEX, 2022-2024 | Project Planning and Controls, Constructability & Digital Engineering Lead   * PPC – Project Planning and Controls Division: Southwest Metro Upgrade – Package 4, Canterbury, Marrickville and Sydenham Station ([Haslin Constructions](https://haslin.com.au/) and [Stephen Edwards Constructions](https://www.stephenedwards.com.au/) ([HSEJV](https://hsejv.com.au/))). * EPM – Engineering Project Management Division: Central Precinct Renewal Program; Blacktown ESAPs (Elevated Safety Platform Access); Regional Rail Enabling Works; Transport Access Program Tranche 4 (TAP4) – Carramar, Macquarie Fields and Yennora Park Stations – Technical Advisory Services; Transport Access Program Tranche 4 (TAP4) Wave 1 Package 2 – Bardwell Park and Chester Hill Stations – Technical Advisory Services ; Lithgow Area Resignalling Stage 2 (LAR2); Hornsby Maintenance Centre Facility Upgrade   Responsibilities:   * Support Sydney Metro SMP4 construction planning and control. Prepare documentation to be discussed between Sydney Metro and contractors. Liaise with Sydney Metro and provide (weekly/monthly) updates into Primavera P6 TP02+ system and end of month reports. * Develop detailed construction methodologies for safe and efficient delivery of both Greenfield and Brownfield station and tunnel construction * Prepare construction delivery programs to construct major works inside the live rail corridor whilst minimizing impact to rail operations and reducing dependencies on rail possessions * Provide constructability design review and optioneering to assist in the development of scope definition and cost estimates.   MOTT MACDONALD 2021-2022 (As part of Rail Planning Services) | Planning and Constructability Subject Matter Expert   * Sydney Metro West Engineering Design Services (EDS)   Responsibilities:   * Develop detailed construction methodologies for safe and efficient delivery of both Greenfield and Brownfield station and tunnel construction * Prepare construction delivery programs to construct major works inside the live rail corridor whilst minimizing impact to rail operations and reducing dependencies on rail possessions * Provide constructability design review and optioneering to assist in the development of * scope definition and cost estimates.   FUTURE RAIL JOINT VENTURE, 2019-2021 (As part of Rail Planning Services) | Planning and Constructability Advisor and Base Logic Developer   * More Trains More Services (MTMS), Stage 3 & 4   Responsibilities:   * Working for the team developing designs and business cases for the $7b program of works * Developing construction methodologies including construction base logic, staging, constructability reports and construction programs (Primavera P6) for various sub-projects, detecting potential clashes and optimizing resource utilization. * Participating in construction, costs, environmental, and risk workshops between stakeholders to develop construction methodology and reduce associated impacts/costs/requirements. * Assisting with the tender and contract evaluation panel. |

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| WSP 2018-2020 (As part of Rail Planning Services) | Constructability Advisor   * Fast Rail (Sydney-Newcastle, Sydney-Bomaderry, Sydney-Central West)   Responsibilities:   * Assessing constructability risks, project durations and work methodologies to support business case development for alignment option assessments.   CROSS RIVER RAIL DEVELOPMENT AUTHORITY 2018-2019 | Constructability Advisor and Base Logic Developer |

Cross River Rail (North & South Portals, Mayne Yard; Brisbane Live)   
Responsibilities:

* Developed construction methodologies for several design options for a proposed Arena over Roma Street Railway Station and Northern/Southern Portals
* Create and manage 3D Model of substructure using CAD/BIM tools and 3D printed to clarify structural requirements and enhance the discussion between the Development Authority and designers
* Evaluated several scenarios to reduce the construction sequence from an initial estimation of 2+ years (using conventional possession planning) to 90 days (utilizing 3 types of closedowns, minimizing customer experience impacts and optimizing the resource usage).

INSESA INGENIERIA / OXER ENGINEERING (INC. HATCH AUSTRALIA, FLUOR CANADA), 2005-2018 | Project ManagerResponsibilities:

* Part of a team delivering 800Tn of steel works a month with an estimated value of $20mill USD/year
* Prepare schedules. Prepare and review estimates, transport, delivery, assembling and staging plans including liaison with internal and external stakeholder