Yatong Nie

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- Proven track record of successfully implementing digital twin solutions in complex projects and capable of identifying opportunities to leverage digital twins to drive innovation and value.
- PhD in Civil Engineering from UNSW Sydney and has expertise in digital twin technologies.
- Proficient in Navisworks, Revizto, Revit, ProjectWise, Dynamo, Assemble and Python programming.
- Excellent communication skills both internally and externally.
- Driven by a passion to create collaborative and productive methods of project delivery and management by digital twins technologies.

EMPLOYMENT

Digital Engineer WSP Australia

July 2022- Present

- 1. **Coordination:** Coordinate design teams, contractors, and government across all project phases. Initiate and run coordination meetings with project teams.
- 2. **Review/Audit:** Undertake technical reviews of project deliverables; Produce federated models and audit against Project Information Requirements (PIM), including generation of asset registers for project handover.
- 3. **4D simulation:** Support Contractors throughout project delivery phase in coordinating planned activities using 4D construction staging/simulation.
- 4. **Development:** Develop automated tools/workflows to accelerate the process of model review, clash detection and asset management.
- 5. **Innovation:** In charge of the innovation project which is about embodied carbon reporting directly from IFC schema. **Involved projects:**

South Geelong to Waurn Ponds Railway Duplication, \$700M, VIC, Australia

Transport Access Programs: Station Upgrades (Killara Station, Turrella Station, Mascot Station and Tuggerah Station)
Commuter Car Park projects (Leppington, Edmondson Park South and North), NSW, Australia

Graduate Digital Specialist

May 2021- July 2022

Digitise Consulting

- 1. Developed and implemented procedures for the management of digital information and inspections of 3D federated model throughout project lifecycle.
 - Involved projects: M5 Motorway, M6 Motorway Stage1, Great Western Highway Upgrade, Mamre Road Upgrade etc.
- 2. Developed programs and applications to improve project delivery and internal company workflow.
 - Tools used: Python, SQL, Automate flow, Power Apps, Power BI
- 3. Managed and undertook investigations of IFC and BCF format files.

RELEVANT EXPERIENCE AND PROJECTS

South Geelong to Waurn Ponds Railway Duplication *BIM/DE Coordinator*

Oct 2022 - Present

- 1.
- 2. Develop IFC tool to rapidly export metadata from IFC files in bulk and produced graphic dashboard to analyse data quality and integrity.
- 3. Prepare and run weekly clash detection and BIM coordination meetings supported by Revizto.
- 4. Run/update Revit Dynamo attribute data scripts.
- 5. Maintain and configure Revizto, Anvil and BIM 360.

Transport Access Programs of Killara, Turrella, Mascot and Tuggerah Stations Upgrades July 2022 - Present

- 1. Undertake technical reviews of project DE deliverables including federated models, asset register and metadata.
- 2. Build and update 4D sequence animation according to program updates from planning team on a monthly basis.
- 3. Support and check the VPR submissions.

EDUCATION

Doctor of Philosophy

Apr 2018 - Feb 2022

UNSW Sydney

Thesis: Short- and long-term performance of timber-timber composite (TTC) floor system (Nominated for the Dean's Award) Supervisors: Prof. Hamid Valipour and Prof. Stephen Foster

REFERENCES

Available upon request