

# KULANDAI YESU L

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## WORK EXPERIENCE

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### HSS BIM SOLUTIONS PVT.LTD.

Aug 2022 – Present

- **Senior BIM Modeler**

I worked on overseas projects utilizing Civil 3D and Revit, where I modeled complex utility networks such as water supply, sewage, drainage, electrical cables, telecommunication and bridge. My role involved creating detailed profiles with model, managing data shortcuts to solve clashes, and developing parametric Revit families for infrastructure components for bridge, drainage structures, and streetlights with BEP standards. I also resolved model clashes using Navisworks to ensure seamless system integration. Earlier, as a Revit Architecture BIM Modeler, I contributed to as-built modeling of residential and commercial buildings of France country by automating sheet creation with Dynamo, performing quantity takeoffs in Excel, and ensuring IFC compliance for smooth data exchange.

## EDUCATION

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- **BE in Civil Engineering – 7.3 CGPA**

Aug 2017 – Apr 2021

Thamirabharani Engineering College, Anna University

- **HSE – 84.6%**

Aug 2015 – Apr 2017

St John's Higher Secondary School

## WORKED PROJECTS

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- **Sungai Marang Bridge Upgrade, Malaysia. [↗](#)**

In this project I'm contributed to the BIM modeling and coordination for the upgrade of the Sg. Marang Bridge and road infrastructure using Revit and Civil 3D. Developed a 4-lane, two-way road design over a 1.5 km stretch, ensuring compliance with BEP standards. Modeled the flyover structure, upgraded two major bridges at Sg. Marang and Sg. Rinting, and integrated a comprehensive drainage system to improve water flow and mitigate flood risks. Designed and coordinated streetlights, traffic signals, and utility diversions, ensuring seamless integration with the road network. Utilized Navisworks for clash detection, ensuring smooth execution and minimizing design conflicts.

**Software Used:** Revit, Civil 3D, Auto CAD, Navisworks.

- **The Mutiara Line LRT, Malaysia. [↗](#)**

In this project I'm contributed to the BIM modeling of water supply networks, sewage systems, telecommunication lines, and electrical cables using Civil 3D. Developed and managed detailed utility models. And also, played a key role in clash detection and resolution using Navisworks.

**Software Used:** Civil 3D, Auto CAD, Navisworks.

- **King Salman Park, Saudi Arabia.** [↗](#)

In this project I'm contributed to the BIM modeling of utility networks, including digital infrastructure, district cooling, potable and non-potable water, storm water, and wastewater systems using Civil 3D. Created and managed detailed utility models, added tags, extracted manhole schedules, and developed comprehensive profile views utilizing data shortcuts. Played a key role in clash detection and resolution through profile adjustments and Navisworks coordination, ensuring seamless integration of underground and surface utilities.

**Software Used:** Civil 3D, Auto CAD, Navisworks.

- **Infinaxis Cyberjaya Data Centre, Malaysia.** [↗](#)

In this project I'm independently modeled the roads, sewage, drainage, road furniture, and water supply around the data center using Revit. Created and integrated sewage and drainage systems, optimizing flow and spatial coordination. Modeled essential road furniture and water supply infrastructure, ensuring compliance with design standards and project requirements.

**Software Used:** Revit, Auto CAD, Navisworks.

- **Penang South Reclamation (PSR), Malaysia.** [↗](#)

In this project I'm independently modeled the water supply network, including incoming, distribution, and recycled water pipelines with detailed profiles and data shortcuts using Civil3D. And also developed elevated overhead water tanks along with their MEP components and truss supports for pipelines in Revit. Conducted clash detection and resolution using Navisworks.

**Software Used:** Revit, Civil 3D, Auto CAD, Navisworks.

- **BIMer Services, France.** [↗](#)

In this project, am modeled some existing residential and commercial buildings, along with topography surrounding the structures, using Revit Architecture. Creating organized spaces, zones, and component quantity take-offs in compliance with French standards. Generating detailed sheets for zones and spaces, incorporating tags and unique IDs for each respective zone with the help of Dynamo. Integrate intervention data for components and performed quantity and volume calculations, exporting results to Excel sheets. Delivered a structured IFC model, ensuring seamless data exchange for Facility Management (GEM).

**Software Used:** Revit Architecture, Dynamo, MS Excel, MS Word and IFC viewer.

- **Kwasa Damansara, Malaysia.** [↗](#)

In this project I'm Modelled utilities including electrical, telecom, water supply, sewer, drainage, street lights, and road furniture in Civil 3D. And Modelled proposed high zone water reservoir structure along with MEP services, topography, drains, and electrical control rooms in Revit. Used Navisworks for clash detection, resolving internal clashes and coordinating with other packages to ensure a clash-free model.

**Software Used:** Revit, Civil3D, Navisworks, AutoCAD.

- **MRCB's Mukim Setapak, Malaysia.** [↗](#)

In this project I'm independently modeled road, drainage, electrical, and telecom services around the building in Revit. Created custom parametric families for drainage and road furniture in Revit. Resolved internal and interdisciplinary clashes around the building to ensure a clash-free model.

**Software Used:** Revit, Navisworks, AutoCAD.

- **Subang Airport Regeneration Plan (SARP), Malaysia.** [↗](#)

In this project I'm independently modeled sewer, drainage, telecom, water, low- and high-voltage electrical services, streetlights in Civil 3D and Modelled road furniture in Revit, including medians, lanes, and signage. Conducted clash detection using Navisworks to ensure a clash-free model.

**Software Used:** Revit, Civil3D, Navisworks, AutoCAD.

## SKILLS in SOFTWARE

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- **Revit** – Architect modelling, sheet, schedule, family creation and basic level MEP works.
- **Civil 3D** – Utilities modelling (wet and dry), creating pressure pipe catalog, profiles and labels.
- **Navisworks** – Clash exporting and solving.
- **AutoCAD** – 2D Drafting works.