KULANDAI YESU L

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WORK EXPERIENCE

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

- **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

- **Menaik Taraf Jambatan Merentasi Sg. Marang, Terengganu.**

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.

- **Projek Rapid Transit Aliran Ringan (LRT) Pulau Pinang – Laluan Mutiara.**

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, Central Park 6.0 – Riyadh, 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 – Selangor, 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.

- **The Penang South Reclamation (PSR) Project – Penang South Island.**

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 (Gestion Exploitation Maintenance) - 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.

SKILLS in SOFTWARE

- **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.