

ISAAC SOH

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PROFESSIONAL EXPERIENCE

Eindhoven University of Technology – Teaching Assistant January 2026 - Present

- Course development of Project Smart Cities under Prof. Bige Tunçer and Prof. Gamze Dane
- Researching and building teaching frameworks for parametric urban design, agent-based modelling, and procedural city generation
- Developing Grasshopper-based exercises and datasets for computational urban analysis and simulation

CPG Corporation – Assistant Architecture Associate June 2024 – June 2025

- Developed Rhino-based design studies and spatial programming for the Singapore University of Social Sciences (SUSS) Bugis Campus feasibility study, evaluating site capacity against client Gross Floor Area requirements
- Produced 3D models, diagrams, and architectural visualisations for feasibility presentations and internal design reviews
- Presented design proposals to clients and coordinated with multidisciplinary consultants including security, acoustics, transport, sustainability, structural, mechanical & electrical, and SMART systems specialists
- Contributed design research and graphic production for the publication “Design for Senior Co-Living”, exploring spatial and architectural strategies for ageing communities

Treasure Dragon Corporation – Architectural Intern May 2023 – September 2023

- Designed interior spatial layouts for the Xu Liang Yu Library
- Produced Rhino and SketchUp models for Ai Zhen Di residential development in Taichung, Taiwan
- Generated architectural visualisations and spatial studies for residential projects
- Assisted design development and presentation material production for multiple architectural proposals

Wave Design Consultancy – Computational Design Intern August 2022 – December 2022

- Developed a Grasshopper parametric façade system controlling panelisation, geometry, and permeability based on client privacy requirements for *The Ring House*, a private residential project in Nairobi
- Produced CAD drawings and architectural visualisations for Arboretum Park, a mixed-use residential development
- Prepared presentation graphics and concept diagrams for client pitch decks and project documentation

Dynamic Assemblies Lab – Research Assistant May 2021 – September 2021

- Designed a tensegrity construction kit using Rhino and Grasshopper integrating 3D-printed structural connectors
- Fabricated and tested physical prototypes to evaluate structural behaviour and assembly performance
- Conducted experimental testing of aluminium profiles using strain gauges to analyse structural thresholds

SELECTED PROJECTS

Modular Hospital Surge Extension System — Capstone Project | SUTD

- Awarded Capstone Design Showcase Public Award
- Designed a modular hospital extension system addressing surge capacity during pandemic scenarios
- Developed spatial strategies enabling rapid deployment of additional treatment spaces adjacent to existing hospitals
- Proposed prefabricated modular units allowing scalable expansion of healthcare infrastructure

Humane Migrant Worker Dormitories — Undergraduate Research Project | SUTD

- Project exhibited at the Seoul Biennale of Architecture and Urbanism
- Investigated architectural strategies to improve air circulation and thermal comfort in high-density dormitory housing
- Produced environmental design studies addressing health and ventilation challenges

EDUCATION

MSc Architecture, Building and Planning

Eindhoven University of Technology | 2025 – Expected 2027

BSc Architecture and Sustainable Design (Honours)

Singapore University of Technology and Design | 2020 - 2024

Exchange: IE University — Bachelor in Architectural Studies (2023)

SKILLS

Design and Modelling: Rhino + Grasshopper | AutoCAD | SketchUp | Revit

Visualization: V-Ray | Lumion | Enscape | Unreal Engine

Adobe Suite: Photoshop | Illustrator | InDesign | Premiere Pro

Programming: Python

Languages: English (Native) | Chinese (Native)

LEADERSHIP & ACTIVITIES

Secretary — ANARCHI Activities Committee, Eindhoven University of Technology

Initiatives Director — Architecture and Sustainable Design Committee, SUTD

Organised PARK(ing) Day installations and architecture events