




MENG JU, HSIEH

2000.08.28 | Male | Taiwan

 <https://xmruuu.github.io>

 mj.hsieh@tum.de

 DE +49-15111204107 | TW +886-958082801



I'm a master's student in ITBE@TUM, focused on applying IT skills (BIM & related software development) to advance the digitalization of AEC industry. I specialize in developing Automation & Data-Driven Solutions to simulate, optimize and support decision-making across building lifecycle, transforming engineering information into actionable insights.

EDUCATION

- Technical University of Munich** Munich, Germany
M.Sc. Information Technologies for the Built Environment
– Ministry of Education Government Scholarship to Study Abroad (GSSA)
– TUM Merit-Based Waiver Scholarship for High-Achieving Students
Oct 2024–
- Chung Yuan Christian University** Taoyuan, Taiwan
B.Arch. Architecture (GPA: 3.88 / 4.0)
– Yan Shih-Hsiao Alumni Scholarship
Sep 2018–Jun 2023

PROFESSIONAL EXPERIENCE

- MOD Prefabrication AI, Bimondis AG** Munich, Germany
Working Student
– Develop an IFC–RDF pipeline integrated with LangGraph and LLMs to enable semantic queries assessing prefab feasibility
Sep 2025–
- Chair of Computing in Civil and Building Engineering, TUM** Munich, Germany
Research Assistant
– Delivered 4D BIM models in Revit/Navisworks, structuring time-series data in Python for progress analytics
Aug 2025–
- SUNHOU Architects & Partners Association** Taoyuan, Taiwan
R&D Engineer
– Lead digital transformation by developing internal RAG system, Revit plug-ins, Stable Diffusion and n8n framework
Aug 2025–
Working Student
– Executed a golf club interior renovation project (*GFA 80,000 sqft*) and an industrial factory project, including construction scheduling, detailed design, budget allocation, quality control, and MEP integration
Sep 2020–Jun 2022
- Ministry of Education Higher Education Sprout Project, CYCU** Taoyuan, Taiwan
Publication Editor
– Contributed to the university receiving the highest national subsidy for 2 consecutive years by editing the bi-monthly enews
Sep 2020–Jun 2023
- LWK & Partners (HK) Limited** (*WA100 World's Top 32 Architecture Firm 2025*) Beijing, China
Intern
– Collaborated in a multidisciplinary team on the Westin Quanzhou development, focusing on innovative solutions
Jul 2019–Aug 2019

LEADERSHIP & PROJECT EXPERIENCE

- IFC Model Analysis to Gain Insights into Design Processes** (*CCBE Software Lab 25'*) 2025
– Developed a pipeline integrating rule-based + Machine Learning inference for thermal transmittance prediction
- Tree Species Classification & Multimodel Comparison** (*Data Science in Earth Observation 25'*) 2025
– Benchmarked CNN, RNN, Transformer, Random Forest, XGBoost on Sentinel-2 data, evaluating predictive performance
- Indoor Ambient Monitoring** (*Geo Sensor Networks and the IoTs 25'*) 2025
– Integrated LoRaWAN time-series data via FROST API into real-time Cesium dashboard for comfort visualization
- Constraint Design in Timber Modular Process** (*AEC Hackathon Munich 24'*) 2024
– Developed a communication prototype for timber modular structures using PyRevit, collaborating with Drees & Sommer
- Student Lead, Digital Research Community, CYCU Architecture** 2020–2023
– Organized 10+ lectures and workshops on digital fabrication, CAD/CAM and programming, benefiting 200+ participants
– Managed the digital fabrication laboratory for 2+ years, responsible for 50+ maintenance and operation tasks

AWARDS

- Graduation Award for Excellent Performance in Professional Studies, CYCU** 2023
- Thesis Project Excellence Award, CYCU** 2023

SKILLS

- Programming:** .Net Core (C#), HTML, CSS, JS, SQL, Python, PyTorch | **Software:** Revit & Dynamo, Rhino & Grasshopper
- Language:** English – Proficient (C1), Mandarin – Native