Shaun, Dai-Syuan Wu

PROFILE

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Info: birth: 28.02.1990 | Nationality: Taiwanese

ACADEMIA

2016 - 2017:   Master of Advanced Studies, Architecture and Digital Fabrication
ETH-Z, Swiss Federal Institute of Technology in Zurich, D-ARCH, NCCR, Switzerland
Master Thesis: Computational Strategies for Design and Assembly of
                         Thin Folded Concrete Structures
Supervision: Gramazio Kohler Research

2008 - 2013:   Bachelor of Architecture (B.Arch)
Tamkang University, Dept of Architecture, Taiwan
5 years bachelor degree in Architecture

EXPERIENCE

2018 - present: Computational Design Specialist
Witteveen+Bos, Digital Construction Group, Netherlands / Singapore
Website: https://digitalconstruction.witteveenbos.com

- Develop full-scale 3D concrete printing technology for construction industry.
- Program software solutions for robotic applications on robotic arms and gantry robots.
- Program Rhino/Grasshopper plug-ins in C# for multiple software packages.
- Develop FEM analysis for buckling simulation for 3D printing in fresh concrete.
- Develop computational methods for form-finding designs, topological optimisation.
- Develop parametric modelling to automate repetitive tasks.
- Realise complex and non-standard geometries in computational approaches.
- Develop full-stack web applications on cloud-based BIM collaboration platform.
- Train junior engineers in computational design and digital fabrication related topics.

2015 - 2016:   Architectural Designer / Engineer
TMA Architects Associates, Taiwan

- Developed architectural design in space planning, rendering, technical drawings.
- Developed facade design with parametric modelling process.
- Developed BIM in modeling, data management, documentation, planning sheets.

2014 - 2015:	**Architectural Designer / Engineer**
	JC Architecture, Taiwan

- Developed architectural design in space planning, rendering, technical drawings.
- Developed facade design with parametric modelling process.

2013 - 2014:	**National Police Agency**
	Compulsory Military Service, Taiwan

2013 - 2013:	**Research and Teaching Assistant**
	Digital Design Laboratory, Tamkang University, Dept of Architecture, Taiwan

- Engaged in software training for architecture students.
- Maintained laboratory in 3D printers, laser cutting machines, and relevant machinery.

SKILLS

Computer: Programming Languages:
C#, Python, Javascript, HTML/CSS, BASH, SQL

Robot, Machine Programming Languages:
Rapid(ABB), KRL(KUKA), G-Code

Programs:
Rhino/Grasshopper, Adobe Create Suite, Revit/Dynamo

Robot: Robotic Arms:
ABB, KUKA, UR Robot

Gantry Robots:
GUDEL_6-Axis Telescopic-Z Gantry Robot System
ROHACO_4-Axis Telescopic-Z Gantry Robot System

Web: Front-End, Back-End, API, Database, Full-Stack

CERTIFICATES

2020:	**Full-Stack Web Developer Nonodegree,** Udacity
2019:	**Front-End Web Developer Nonodegree,** Udacity

LANGUAGES

Mandarin:	Native
English:	Full professional proficiency
German:	Elementary

VOLUNTEER

2015:	**Humanity Builder**
	Vesta GK Charity Organization, Manila, Philippine