Weiming Zhao

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Education

2016 - 2017	**MSc in Digital Media Technology**, *Nanyang Technological University*, Singapore, *GPA: 4.19 / 5.00.*
Thesis	Generating Bounding-Box Annotations For Large-Scale Image Dataset
Core Courses	Advanced Computer Graphics, Virtual Reality, 3D Modelling & Reconstruction, 2D & 3D Animation, Image Segmentation
2012 - 2016	**BS in Computer Science and Technology**, *Northwest University*, Xi'an, China, *GPA: 3.35 / 4.00.*
Thesis	Image Re-Coloring and Enhancement for Color Blinds
Core Courses	C/C++/Java/Assembly Programming Languages, Compiler Principle, Digital Image Processing, Database, Operating Systems

Experience

June 2019 - Now

Assistant Engineer, *Student Innovation Center, Shanghai Jiao Tong University*, Shanghai, China,

Course Development and Lecturing.

Developing and giving lectures for bachelor students, including:
· AI001 - Artificial Intelligence Interaction Technology: Module of OpenCV;
· SI1210 - Engineer Practicing: Modules of MATLAB, RaspberryPi and NI LabVIEW;
· ME901 - Engineering Practice Exploration and Research: Module of OpenCV;
· CS085 - VR/AR Design and Development Practice.

Student Management.

· Organizing and managing students in course like SI1210 (Engineer Practicing), coordinating resources in between different teachers.
· Managing students finish projects in the course with compulsory technical support.
· Managing students from the club: Future Reality Club (VR/AR).
· Supervising students for participating in contest: First place in Huawei China Undergraduate's ICT Competition (Nov, 2020).

Competitions Management.

· Organizing on-campus competitions: Android Application Development Contest. (ByteDance, 2021)
· Organizing national-wide competitions: Huawei Autonomous Driving Contest. (Huawei, 2020 - 2021).

Enterprise Collaboration.

Taking part in collaboration with top-tier enterprises all over the world: Intel, Google, Huawei, ByteDance, Tencent and etc. Helping them to build the workshop or open courses.
Cooperating with lectures, including:
· CS176 - Android Application Development. (ByteDance, 2020);
· Course Designing of Huawei IoT, HiSillicon chip-based IoT. (Huawei, 2019-2020);
· Teachers' Training of Android Application Development. (ByteDance, 2020-2021).

Laboratories & Devices Management.
Maintaining laboratories and devices including:
· Laboratories: MediaLab, VR/AR Lab;
· Devices: 6-DoF Motion Platform for driving simulation, VR CAVE for teaching and research.

Nov 2017 -   **Research Associate**, *Energy Research Institute @ NTU*, Singapore,
June 2018   *3D City Visualization based on LiDAR data.*
Analyzing, processing, and dealing with LiDAR data (LAZ) of roads and streets of Singapore. Visualization LiDAR data point cloud in the browser.

GUI Designing and Implementation for an Energy Research Project.
Organization and coordinating with different teams in the research lab to determine their requirements with the end-user and algorithm developing group. Designing the prototype and implementing web-based map page and dashboard page for visualization, communication, transmitting with background programs using .NET framework. User could operate it simply for adding buildings or devices, read the devices' data and summary charts.

Patent

June 2020   Calibration Method of Three-Dimensional Point Cloud Acquisition System
Chinese Patent Number: CN110196031B
Inventors: Lin Wang, Zewei Ding, Wanxu Zhang, Weiming Zhao *et al*.
Assignee: Northwest University, China

Awards & Social Responsibilities

Apr 2020   Excellent Staff in Annual Assessment, Shanghai Jiao Tong University
Sept 2021   Referee, National Undergraduate Engineering Practice and Innovation Ability Competition (Beijing, 2021)

Skills

Languages   Chinese Mandarin (Native), English (CEFR C1, IELTS 7.0)
Programming   Python, C/C++, MATLAB, LaTeX, Java
Others   Video editing, Karaoke, Running, Baseball, Swimming