Chen Wei Chang

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EDUCATION

M.S. National Yang Ming Chiao Tung University **Hsinchu, Taiwan**
Institute of Artificial Intelligence Innovation (GPA 4/4.3) *Sep. 2023 -*

B.S. National Taipei University of Technology **Taipei, Taiwan**
Department of Electronics Engineering (GPA 3.91/4.0) *Sep. 2019 - June. 2023*

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript(React.js), SQL(MySQL, SQL server), Verilog
Libraries and Tools: PyTorch, OpenCV, Git, Docker, Linux

WORK EXPERIENCE

Full-Stack Engineer

NYCU Mobile and Pervasive Computing Laboratory, Hsinchu, Taiwan *Sep. 2023 -*

- Developed new analysis features on the CoachAI website using React.js and Flask, such as scoring position replay and smash-to-net running speed statistics.
- Developed a backend management system providing account/group management, dataset authorization management, and webpage access control.
- Developed a doubles website based on the architecture of the singles badminton website, enhancing the website's functionality and diversity.
- Maintaine the website on Linux servers.

Full-Stack Engineer

Mores Tech, Taipei, Taiwan *Feb. 2023 - Jun. 2023*

- Developed a feature using the ASP.NET MVC framework to generate OpenOffice documents through LibreOffice integration.
- Developed a message and Q&A feature using ASP.NET MVC and React.js, allowing users to report project updates to different departments through the system and track the progress of the projects.

PROJECTS

- **Golf Ball Trajectory Estimation System**, Implementing Golf Ball Trajectory Tracking with OpenCV and Image Recognition Algorithms. Link
- **Game Web**, Creating a Website for User Registration and Gameplay of Various Games using Express.js, HTML, and SQLite. Link

PUBLICATIONS

- GCC: Generative Color Constancy via Diffusing a Color Checker Link
  Chen-Wei Chang, Cheng-De Fan, Chia-Che Chang, Yi-Chen Lo, Yu-Chee Tseng, Jiun-Long Huang, Yu-Lun Liu
  Under review at CVPR 2025
  A diffusion-based color constancy approach that achieves superior cross-camera generalization through color checker inpainting.
- SpectroMotion: Dynamic 3D Reconstruction of Specular Scenes Link
  Cheng-De Fan, **Chen-Wei Chang**, Yi-Ruei Liu, Jie-Ying Lee, Jiun-Long Huang, Yu-Chee Tseng, Yu-Lun Liu **Under review at CVPR 2025**
  A novel approach for dynamic specular 3D scene synthesis combining 3D Gaussian Splatting with physically-based rendering and deformation fields.

EXTRACURRICULAR ACTIVITIES

- **Event Coordinator** in Student Association for the Department of Electrical Engineering - Sep 2020 - Sep 2021

SELECTED HONORS AND AWARDS

- Academic Achievement Award, Department of Electronics Engineering, NTUT May. 2020
- Academic Achievement Award, Department of Electronics Engineering, NTUT Nov. 2020