Peijing Li

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EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Science in Engineering in Computer Science — Apr 2024
Minor in Civil Engineering; College of Engineering Honors Program

- *Cumulative GPA:* 4.0/4.0 with 156 credit hours completed.
- *Upper-level electives:* Computer Architecture, Advanced Compilers, Computer Security, Computer Vision, Transportation Engineering, Infrastructure Systems Optimization, Linear Optimization

EXPERIENCE

ASML Silicon Valley — San Jose, CA
Software Test Engineer Intern — May 2023 – Aug 2023

- Perform software quality assurance tests on focus exposure modeling software to optimize the performance of photolithography scanners
- Develop Python script for automating the narrow-down process of bug discovery and synchronization of manual test analysis reports with qTest databases

University of Michigan Department of Civil and Environmental Engineering — Ann Arbor, MI
Instructional Aide in CEE 375 — Sensors, Circuits and Signals Course — Jan 2023 – Apr 2023

- Lead lab section for class of 10 students in experiments on signal processing and Arduino programming
- Hold twice-weekly office hours to help students with homework and other course-related questions

University of Michigan Transportation Research Institute — Ann Arbor, MI
Research Assistant, Biosciences Group — Feb 2022 – Sep 2022

- Developed computer vision system for monitoring body postures of occupants of Level-3 autonomous vehicles
- Constructed multi-body models of vehicle occupants in MATLAB and Mathematica based on 3D body scan data
- Composed review article of research trends in digital human models

Dell EMC — Shanghai, China
Software Engineering Intern, Research & Development — Jun 2021 – Aug 2021

- Automated testing procedures with repository of ~10 Python and Perl scripts for the VMware Cloud Foundation
- Decreased time spent on lifecycle management testing on datacenter software by up to 50%
- Collaborated with team through Confluence and Jira to deliver two major software releases over three months

PUBLICATIONS

[1] P. Li and N. Masoud, “A communication protocol for securing connected vehicle platoons using joint hardware-software means,” in 6th Student Poster Competition at the CCAT Global Symposium, Ann Arbor, MI: Center for Connected and Automated Transportation, Apr. 2023. [Online]. Available: https://ccat.umtri.umich.edu/symposium/2023-symposium/#poster.

[2] P. Li and J. Li, “Exploration of the application of Grey-Markov models in the causality analysis of traffic accidents in roundabouts,” PLOS ONE, vol. 18, no. 9, p. e0287045, Sep. 2023, doi: 10.1371/journal.pone.0287045.

[3] J. Li, P. Li, and J. Hu, “Digital human models in automotive engineering applications: a bibliometric analysis of research progress and prospects,” Accepted by and in press with the International Journal of Vehicle Design, Oct. 2023, doi: 10.1504/IJVD.2023.10060019.

SKILLS

- *Programming Skills:* Java, JavaScript, Python, C/C++, x86/ARM/RISC-V Assembly, LLVM, SystemVerilog
- *Additional Computer Skills:* Docker, Confluence, Jira, MATLAB, Wolfram Mathematica, Adobe Premiere Pro