Yoshiki Takeuchi

ytakeuch92416@gmail.com 312-366-6646 LinkedIn Page

Education

Purdue University, College of Engineering, West Lafayette, Indiana   May 2025
B.S. in Electrical Engineering
- **Technical skills**: Digital System Design, Electrical Engineering Fundamentals, Oscilloscopes, Power Supplies, Digital Multimeters, LTSpice, Linear Algebra, Physics, Calculus, Microsoft Excel.
- **Programming Proficiency:** C-programming, Python, Verilog, MATLAB.
- **Languages**: English, Chinese, Japanese (Trilingual). Fluent and natural conversation in all.
- **Key Attributes**: Independent and adaptable problem solver with a commitment to continuous learning. Strong interpersonal and communication skills, promoting effective teamwork and collaboration.

Relevant Experience

Taiwan Semiconductor Manufacturing Company: Fab 15A   July 2023 - Aug - 2023
DNA Internship Program: Intelligence Production Planning & Control   Taichung, Taiwan
- Utilized Python to implement a Markov Chain calculation in a project aimed at enhancing production efficiency to decrease the wafer queue time about 28%.
- Conceptualized a project focused on "Auto Target" with the aim of improving production efficiency for product ESF3 of decreasing the cycle time 0.1 days.
- Improved presentation skills through proactive development and practice.
- Facilitated communication by providing Japanese language translation for support for 2 colleagues.
- Outperformed 500+ graduate students to become the youngest undergraduate student in this program.

Undergraduate Teaching Assistant of First Year Engineering   Fall 2023
- Delivered constructive and actionable feedback to individual students, facilitating their growth in Excel proficiency and problem-solving abilities.
- Collaborated closely with the course instructor to align teaching materials and assignments with the curriculum's learning objectives.

Improving Purdue Campus Mobility   Fall 2022
- Developed a 3D model to transform spearheaded the creation of a sophisticated 3D model to translate conceptual campus parking improvements into practical, visual solutions.
- Employed advanced data analysis techniques using Microsoft Excel to construct a comprehensive weighted decision matrix, enabling data-driven, strategic decision-making processes.
- Demonstrated effective leadership skills by managing and coordinating a cross-functional team of four colleagues, fostering collaboration and enhancing interpersonal abilities.

Taum Sauk Reservoir Volume and Flow Rate Modeling   Fall 2022
- Led a high-performing team of 4 colleagues to develop a mathematical model in Excel, enabling accurate estimation of the volume and flow rate of a reservoir.
- Demonstrated strong leadership, communication, and problem-solving skills to drive successful project completion.

Extracurriculars

Alpha Phi Omega- National Service Fraternity   Jan 2023 - Present
- Completed 35 hours of service per semester through participation in campus and local community service projects.

Pledge Trainer Buddy (Service)
- Organized and coordinated activities for the Fall 2023 pledge service events.
- Demonstrated leadership and teamwork skills in mentoring and guiding new members through their pledge service commitments.

Global Engineering Alliance for Research and Education (GEARE)   March 2023 - Present
- Demonstrated commitment to continuous learning and professional development in the field of engineering.

Purdue Philharmonic Orchestra   Aug 2021- May 2022
Second Violinist
- Participated in "Let Music Alive" in summer of 2022 in Europe with Purdue orchestra.