

Jason Yuchi Tsao

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Portfolio: <https://j7tsao.github.io/portfolio> | GitHub: <https://github.com/j7tsao>

Objective

- Looking for a full time job as a software engineer.

Technical Skills

Python, JavaScript, HTML5, CSS3, C++, bash, GIT, Django, React JS, SQL, Selenium, Linux/Unix, MS Windows

Projects / Certificate

- Project of Fortune Teller using Python [[GitHub](#)]
- Project of Travel Agency Administration System using C++ [[GitHub](#)]
- Portfolio Webpage (HTML5 / CSS3 / JavaScript) [[Link](#)] [[GitHub](#)]
- freeCodeCamp Scientific Computing with Python Certification [[Link](#)] –
Projects: [Arithmetic Formatter](#), [Time Calculator](#), [Budget App](#), [Polygon Area Calculator](#), [Probability Calculator](#)
- freeCodeCamp Responsive Web Design Certification [[Link](#)] –
Projects: [Survey Form](#), [Tribute Page](#), [Documentation Page](#), [Product Landing Page](#), [Personal Page](#)
- freeCodeCamp Front End Development Libraries using React JS Certification [[Link](#)] –
Projects: [Random Quote Machine](#), [Markdown Previewer](#), [Drum Machine](#), [Calculator](#), [25 + 5 Clock](#)
- freeCodeCamp JavaScript Algorithms and Data Structure Certification [[Link](#)]

Work Experience

Qualcomm Technologies	San Diego, CA
EngIT Engineer (Consultant)	2021 – 05.2022

- Verified Engineering flow (NBF) through Cloud provisioning (AWS EC2)
- Scripting (bash, Python) for Amazon Machine Images (AMI) automation
- Cross-site infrastructure provisioning for Qualcomm Vendor Remote Access & Debug (QVRAD)

Self-Employed (E-Commerce, Realtor)	2019 – 2020
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Qualcomm Technologies	San Diego, CA
ASIC Implementation Engineer	2012 – 2018

- ASIC implementation for Snapdragon GPU cores: Gandalf, Elessar, Istari, Nazgul, Napali, Poipu, Hana, Kona
- Formal Verification (Cadence Conformal LEC), Physical Aware Synthesis (Synopsys Design Compiler Graphical)
- Static Timing Analysis (STA), fixing setup violation (Synopsys DCG/Prime Time)
- Owner of the 2nd biggest hard macro in GPU core (Texture Pipe, TP Wrapper, 5.1 Million gates, 3X TP)

Illinois Institute of Technology	Chicago, IL
Research Assistant	2007 – 2011

- Area-efficient VLSI implementation for parallel linear-phase digital FIR filter of even and odd length
- VLSI pipeline system (Multimedia processor) power reduction for via single comparator-based clock gating

Teaching Assistant	2007 – 2011
<ul style="list-style-type: none">• ECE212: Circuit Analysis	<ul style="list-style-type: none">• ECE429: Introduction to VLSI Design

ProMOS Technologies	Hsinchu, Taiwan
Wafer Sort Engineer	2003 – 2005

- Wafer testing troubleshooting and wafer prober maintenance in fab
- Die testing data analysis and yield improvement

Education

Illinois Institute of Technology

Chicago, IL

Ph.D. Electrical Engineering (GPA: 3.51 / 4.0)

Dec 2011

- PhD Dissertation Title:

Hardware-Efficient VLSI Implementation for Parallel Linear-Phase Digital FIR Filter

New York University Tandon School of Engineering

New York, NY

M.S. Electrical Engineering (GPA: 3.75 / 4.0)

Jun 2007

Dayeh University

Changhua, Taiwan

B.S. Electrical Engineering

Jun 2001

Awards

Qualstar (Qualcomm Recognition & Reward Program for Outstanding Contributions)

- 2015 – Extra efforts and dedication to incorporate very challenging last minute USP changes for successful Istari V3.0 TO.
- 2017 – Dedication to deliver the highest quality netlist as a GPU hard macro owner for Hana/Poipu V1.