

QUANG TRAN

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EXPERIENCE

ManPowerGroup at Intel Corporation

Manufacturing Technician

Santa Clara, CA

Aug 2026 – Present

- Operate semiconductor tools in a Class 10 cleanroom to meet safety and output targets.
- Perform preventive maintenance and component-level diagnostics on fab equipment.
- Identify and classify product defects; reroute and escalate affected lots according to specifications.

Panda Express

Manager

San Jose, CA

Jan 2022 – Oct 2026

- Led 20 associates through daily operations, scheduling, and workflow in a high-volume store.
- Trained 25+ new hires on procedures, safety compliance, and quality standards.
- Managed inventory and ordering, keeping food costs under 21% of net sales.

Dough Zone

Waiter

San Jose, CA

Jan 2023 – Dec 2023

EDUCATION

San Jose State University

B.S. Electrical Engineering; GPA: 3.3

San Jose, CA

Expected May 2028

- **Coursework:** EE Lab, Computer Systems, Electricity & Magnetism, Programming.
- **In progress:** Digital Logic Circuit Design, Signal Processing, Differential Equations & Linear Algebra.

HACKATHONS

Verity: Community-Powered Local Intelligence

Node.js, Supabase, PostgreSQL, MapLibre, Railway

- Built a MapLibre dashboard for location-based incident reports, clustered event maps, and community updates.
- Developed a Node.js API using Supabase PostgreSQL, email-code authentication, and row-level security across 15 tables.
- Implemented event timelines and a verification-job queue; deployed to Railway and validated frontend/CORS access.

MFGX AI: Manufacturing AI Copilot

Python, pandas, Ollama, ChromaDB

- Built an AI assistant that summarizes shifts, displays production metrics, and answers questions using plant specifications and equipment manuals.
- Connected local language models through Ollama to ChromaDB search, grounding answers in documents with source citations.
- Used pandas to calculate overall equipment effectiveness (OEE), scrap, downtime, and inventory metrics for 15 machines over 30 days.

PERSONAL PROJECTS

Embedded Card Scanner

Raspberry Pi, ESP32, Python, Computer Vision

- Integrated an ESP32 camera with a Raspberry Pi for real-time image acquisition and hardware-level synchronization.
- Built a Python optical-recognition pipeline to extract card text and match it against a local card database.
- Diagnosed and resolved system-level memory constraints and data-transfer latency.

TECHNICAL SKILLS

Lab & Hardware: Soldering, oscilloscope, multimeter, function generator, circuit debugging, LTspice, TinkerCAD.

Programming: C, C++ (embedded/firmware), Python, Java, JavaScript (Node.js), SQL.

Platforms & Tools: Arduino, ESP32, Raspberry Pi, Supabase/PostgreSQL, Ollama, Git/GitHub.

Safety: Lockout-tagout (LOTO) awareness, cleanroom PPE protocol.