

# Nguyen Quoc Huy Tran

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## SEMICONDUCTOR MANUFACTURING TECHNICIAN

As a Semiconductor Manufacturing Technician at Western Digital Technologies, Inc. I play a crucial role in producing advanced semiconductor devices. My responsibilities encompass various aspects of semiconductor manufacturing, focusing on precision, quality, and efficiency. I take immense pride in driving process improvements, resulting in reduced cycle times and minimized wafer defects. These enhancements have translated into elevated product quality and operational efficiency, contributing to the company's success. While working there, I had a solid background in the semiconductor industry to take advantage of this new work environment. In my four years at Western Digital, I have demonstrated a strong commitment to growth and excellence, quickly advancing from DMT I to DMT III in just two years. This progression reflects my ability to adapt, learn rapidly, and consistently deliver results in a fast-paced, technology-driven environment.

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**KEY COMPETENCIES:** Management Strategic / Problem-Solving and Troubleshooting / Team leadership / Communication / Technical Knowledge / Operations management / Focused Ion Beam (FIB) / Scanning Electron Microscopy (SEM) / Magnetic Recording / Search Engine Marketing (SEM) / Wafer Process Development.

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## JOB EXPERIENCE:

**Western Digital: June 2019 - Present**

**Device Manufacturing Technician III:**

**FEI/ Hitachi SEM/ Verity SEM / Zygo / Wyko:**

- Operated **CDSEM and FIB tools (FEI/Certus, Hitachi SEM, Verity SEM, Manual FEI)** to support wafer process development and manufacturing of magnetic recording heads.
  - Knowledgeable in automated defect classification, defect location mapping and defect source clustering workflows.
  - Conducted high-resolution imaging, defect review, and sample preparation, including cleaving, cross-sectioning, and focused ion beam (**FIB**) milling.
  - Calibrated, monitored, and performed minor troubleshooting for **SEM and FIB** metrology tools to ensure optimal performance.
  - Created and executed engineering recipes per engineer specifications for specialized research and production runs.
  - Supported **FIB** sample preparation development.
  - Prepared samples for **Focused Ion Beam (FIB)**, optimizing sample preparation procedures and identifying cutting locations based on pattern instructions.
  - Delivered detailed reports and provided seamless shift transitions with comprehensive handovers.
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## EDUCATION

- **San Jose State University - Management Information Systems (MIS)** - (Expected Graduate in Fall 2025)
- **Mission College - Associate in arts: Science and Mathematics (2023)**

