Trinh Minh Tuan

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EDUCATION

Aug 2026 – Present

Ph.D. in Mechanical Engineering

Purdue University, West Lafayette, IN, USA

- Founding cohort, Physics-Based & Bayesian Machine Learning Lab.
- Arrasmith Fellowship Fall 2026 recipient.

Sep 2021 – Oct 2024

B.Eng in Mechatronics Engineering

Hanoi University of Science and Technology, Ha Noi, Vietnam

- Research Assistant, Project XYZT and MAS Group.
- Valedictorian and class representative.
- Member, HUST Student Union Committee and HUST SME Youth Union Committee.

Sep 2015 – May 2018

Diploma

Hanoi-Amsterdam High School for the Gifted, Ha Noi, Vietnam

- CAD Designer and Field Captain for FRC 2017, GreenAms Robotics Team 6520.
- Sound Director, G'LAMS 2017.
- Vocalist, Glee Ams and G'LAMS 2016.

EXPERIENCE

Dec 2025 – May 2026

Technical Project Management Engineer

Fushan Technology Co., Ltd, Bac Ninh, Vietnam

- Managed 5 concurrent PCB manufacturing projects across consumer electronics and autonomous vehicle applications, coordinating schedules, resources, risks and customer requirements as a trusted technical point of contact.
- Led engineering implementation of customer-specific solutions during autonomous vehicle NPI, reducing recurring several NPI defects by up to 90%.
- Coordinated cross-functional engineering teams during NPI and mass production, achieving >98% yield during NPI and >99.5% yield in mass production.
- Developed an internal reporting tool that reduced daily report preparation time by up to 60%.

July 2024 – April 2025

NPI Engineer

LG Innotek Vietnam Haiphong Co., Ltd, Hai Phong, Vietnam

- Managed process-level NPI for 3 consumer electronics projects from NPI builds through mass production, coordinating build plans, materials, system readiness with cross-functional teams, PM engineers and customers.
- Designed MES process flows for new products and authored SOPs, work instructions and checklists to standardize line setup and quality requirements with setup lead time under 3 days.
- Built a computer-vision tool that cuts build-report preparation time by up to 80% while improving cross-report consistency.
- Reduced IPQC inspection time by nearly 30% and lowered operator error by converting manual inspection programs into fully automated quality checks on Nikon NEXIV machines.

AWARDS AND HONORS

2026 – 2027

Arrasmith Fellowship

School of Mechanical Engineering, Purdue University

2025

Valedictorian, Highest Distinction, May 2025 Graduation Ceremony

School of Mechanical Engineering, Hanoi University of Science and Technology

2024

LGIT Class Scholarship

LG Innotek Vietnam Haiphong Co., Ltd

Fall 2022, Spring 2024

HUST Academic Scholarship

Hanoi University of Science and Technology