

# Hai Anh Nguyen, EIT

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## EXPERIENCE

### Manufacturing Process Engineer | LTD Material LLC | Austin, TX | October 2021 – Present

- Reverse engineer, determine BOM and Router, review and prepare production cost quotes based on customer requirements, recommend and carry out engineering changes in compliance with DfM principles for machining with specializes in the hot fabrication of Quartz in the semicon industry.
- Manages resources, provides direction to staff, approves weekly staffing decisions, and develops the organization's skill-set matrix to ensure effective use of labor, fixtures, and equipment.
- Act as a liaison between production and purchasing to secure raw materials in turbulent market situations, ensuring OTDs. Led and directed a team of engineers through a plant restart, improving safety and quality metrics while maintaining schedule and budget.
- Promote a culture of continuous improvement, teamwork, and root cause problem solving across the organization, improving the overall factory efficiency by 12% over 6 months based on internal tracking metrics.

### Inventor/Research Assistant | Rowan University | Glassboro, NJ | May 2019 – May 2021

- Research on not yet well-defined projects to create a new product with minimal supervision, thinking, planning, execution testing, and control to ensure that the prototype satisfies all equipment performance requirements, including functionalities, develop LabVIEW-based automated systems control user interface, define potential sources for error conditions, ensure stability, and execute viable/mechanical testing.
- Establish and validate a new printing process for fabricating multi-material high-throughput microfluidic chips as part of Ph.D. projects from day one, resulting in the Inventor's share in a Patent filed May 2021 (USPTO 17/297,305, WIPO WO/2021/216258).
- Proactive and independently seek out information to form logical conclusions and devise concrete actions to complete the project.

### Research And Development Intern | PIAGGIO & C. S.P.A. | Binh Xuyen - Vinh Phuc - Vietnam | July 2018 – August 2018

- Produce cycle time analysis for different steps in the production process for reduction optimization and minimizing production defects.

### Plant Engineering Intern | Ford Vietnam Ltd | Tu Minh – Hai Duong – Vietnam | May 2018 – June 2018

- Design a new pressurized air pipe sub-system to utilize the existing air pump backup system for maintaining usage flow on the weekends for the paint shop to save on over 40% of the energy consumed compared to operating for full factories.

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## EDUCATION

Bachelor of Arts – BA: International Studies | Minor in German Studies | Rowan University | Glassboro, NJ | 2021 | 3.68

Bachelor of Science – BS: Mechanical Engineering | Minor in Mathematics | Rowan University | Glassboro, NJ | 2021 | 3.4

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## CERTIFICATIONS

Principal and Practice of Engineering – Mechanical: Machine Design and Material | NCESS | 2022

Project Management Professional (PMP®) | Project Management Institute | 2022

Certified Manufacturing Engineer (CMfgE) | Society of Manufacturing Engineer | 2021

Engineer-in-training (EIT) | Texas Board of Professional Engineer and Land Surveyors | 2021

Certified SOLIDWORKS Professional – Mechanical Design | Dassault Systèmes | 2021

Commercial UAVs Pilot (Part 107) | Federal Aviation Administration | 2021

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## INVOLVEMENT

Communication Director | Austin, Texas | Texas Society of Professional Engineer – Travis County | January 2022 – Present

- Led the development of all communications content, including key messaging, website content, and social media strategy.
- Setup and manage Microsoft Office 365 Suite: Outlook, Teams, Sharepoints, Mailchimps, and Dynamics 365.

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## SKILLS

**Industry Knowledge:** Quartz Manufacturing, Engineering, 3D Printing, Project Management, Research, Entrepreneurship, Product Development, Process Automation, CAD/CAM, Product Design, Lean Six Sigma, 3D Modeling, Agile Methodologies

**Tools & Technologies:** ERP, LabVIEW, Finite Element Analysis, Matlab, CAD Software (SolidWorks, PTC Creo), Arduino (C++), Python, Microsoft Office Suite, Linux, Ubuntu, Ultimaker Cura, Multi-meter, Bash scripting (NGINX stack), ArcGIS

**Interpersonal Skills:** Production Planning, Skill-set evaluation, Customer Service, Public Speaking, Team Leadership, Management, Critical Thinking, Creative Problem Solving, Communication, Teamwork, Leadership

**Other Skills:** English, German, Vietnamese, Process Improvement, Manufacturing Processes, Lathe, Mill, Creo Parametric, 3D Prototyping, Diversity & Inclusion, Back-End Web Development

