

ANH VUONG, EIT

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PROFESSIONAL EXPERIENCE

Engineer Assistant

Oct 2024 – Present

Home Top Home LLC | Huntington Beach, CA, USA

California-based Home Top Home Architects specializes in personalized home design services

- Supported lead PE using CAD and Bluebeam to deliver precise drainage, grading, erosion control, and driveway extension plans compliant with municipal codes and BMP standards
- Conducted site measurements and calculations using Excel to deliver material quantity estimates, elevation metrics, and critical documentation aligning with local municipal and federal compliance packages

Patent Examiner – Computer Science

Jun 2024 – Oct 2025

U.S. Patent and Trademark Office (USPTO) | Alexandria, VA, USA

USPTO is the federal agency responsible for granting patents and registering trademarks to protect intellectual property rights

- Identified patentable innovations in image recognition, computer vision, machine learning, and AI by conducting thorough prior art searches on over 100,000 patents using Patent Office software and systems
- Evaluated patent applications through analyzing submitted materials to ensure potential innovations meet examination criteria and drafted office actions and respond to inquiries leveraging CS expertise to examine emerging technologies

Engineering Assistant (Volunteer)

Feb 2020 – Aug 2021

Professional Building Design Inc. (PBD) | Garden Grove, CA, USA

PBD provides quality architectural and engineering design services for residential and commercial projects

- Assisted the lead engineer in preparing MEP drawings for residential and commercial projects, measuring site conditions, conducting field observations, and drafting responses to city plan check comments for local code compliance

SMT Material Controller cum IT Support

Apr 2018 – Oct 2019

Express Manufacturing, Inc. (EMI) | Santa Ana, CA, USA

EMI is an electronics manufacturing services company with over 1000 employees across the USA, China, and Vietnam

- Managed SMT material inventory and distribution for PCB assemblies, ensuring compliance with engineering specifications; reduced material shortages by 15% through proactive planning
- Customized Manex ERP to track material flow and optimize stock levels, improving procurement efficiency and supporting on-time production schedules by 20%

EDUCATION & CERTIFICATIONS

Engineer-in-Training (EIT) – California Board for Professional Engineers, Land Surveyors, and Geologists

Sep 2025

Purdue University, West Lafayette, IN

Jan 2026 – Expected Dec 2027

Master of Science in Civil Engineering (Area: Smart Mobility) GPA: 3.95

University of California, San Diego, CA

Sep 2021 – Dec 2023

Bachelor of Science in Computer Science

Major GPA: 3.744, UC GPA: 3.685

Provost Honors

Orange Coast College, Costa Mesa, CA

Aug 2018 – May 2021

Associate of Science in Computer Science

GPA: 4.0

Dean's List

CIVIL PROJECTS

Garden Grove Residential Drainage Plans | Drainage Design Associate

Dec 2025 – Present

- Drafted CAD drawings for proposed site layouts, flowlines, and elevations under a PE, ensuring compliance with city ordinances and BMP stormwater standards

Garden Grove Residential Grading Plans | Grading Design Associate

Nov 2025 – Present

- Drafted grading and erosion control plans with FEMA Elevation Certificates under a PE, developing site layouts, material quantity estimates, elevation calculations, and compliance documentation matching municipal and BMP stormwater standards

Sumac Residence Driveway Extension Plan | Design Associate

Nov 2025 – Dec 2025

- Drafted driveway extension plans for encroachment permit applications under a PE, ensuring strict compliance with local code enforcement and municipal standards

SKILLS

- Programming Languages:** Python, C++, Java, SQL, JavaScript, HTML, CSS, Matlab
- Frameworks/ Libraries:** NumPy, Sklearn, Data Wrangling (Pandas), Jekyll, Node.js
- Technologies/Tools:** AutoCAD, Bluebeam, PostgreSQL, MySQL, Git, MS Office (Word, Excel, PowerPoint, Outlook)
- Others:** Attention to Detail, Problem-Solving, Teamwork, Adaptability, Analytical & Mathematical Mind