Harry Hai Tran

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EDUCATION

University of Texas at Tyler | Expected Graduation: Fall 2025
Bachelor of Science in Electrical Engineering | GPA: 3.3

- Relevant Coursework: Engineering Statistics, Digital Logic Design, Engineering Mathematics, Electronics, Signal and Systems Analysis.

EXPERIENCES

7 Star Design, Houston, TX | Intern | August 2019 - 2022

- **Cost Analysis and Project Planning:** Developed detailed plans for material cost estimation, applying engineering principles to ensure safe and timely completion of construction projects.
- **Utilized software tools** to analyze project costs, helping to stay within budget and enhance profitability.
- **Regulatory Compliance:** Prepared and submitted various permit applications and construction documents.
- **Collaborated closely with city engineers** to ensure all engineering designs adhered to local codes and regulations, successfully navigating complex compliance issues.
- **Engineering Solutions:** Conducted on-site assessments and inspections, identifying potential design flaws and recommending effective solutions.
- **This proactive approach** minimized project delays and enhanced safety standards.
- **Cross-functional collaboration:** Worked in a team environment with clients, architects, and contractors, honing communication and problem-solving skills to resolve engineering and design challenges, ensuring projects met client specifications and expectations.

GenBBQ, ShabuZone, Sweetwater Seafood Restaurants | Server/Cashier | 2017 - 2021

- Fostered customer loyalty through exceptional service, managing orders for 100-200 guests per shift.
- Ensured quick and efficient service, maintaining high standards of food quality.

Que Huong & Le Viet Restaurants | Assistant Manager/Manager | 2016 - 2017

- Resolved conflicts effectively while overseeing restaurant operations.
- Managed team communication and organized workflows across multiple sections, including food service and technology.

Project Experience:

- **Electric Water Project | Fall 2021**
  Led a team of 5 in analyzing electric water systems, focusing on circuit design and energy efficiency. Developed a proposal for design modifications that improved functionality and reduced overall costs, receiving recognition for innovative solutions.

- **Solar Energy Project | Spring 2022**
  Conducted comprehensive data analysis to evaluate renewable energy sources, including solar, wind, and hydroelectric power. Created a simulation model to optimize energy output and reduce waste, resulting in a detailed report that received high praise for its thoroughness and clarity.
- **Virtual AI Project | Spring 2024**
  Engineered an AI-driven system for energy management, integrating machine learning algorithms and control systems. Developed a user-friendly interface and performed rigorous testing, leading to high commendations for both design and operational efficiency.
- **Robotics Project | Fall 2023**
  Designed and implemented a robotic system for [specific application, e.g., automated material handling]. Developed control algorithms and integrated sensors to enhance feedback mechanisms, leading to a significant increase in operational efficiency. Successfully presented the project to faculty and peers, receiving accolades for innovation.

SKILLS

- **Electrical Engineering Proficiency:** Deep understanding of circuit design, signal processing, control systems, and energy management. Hands-on experience with both theoretical concepts and practical applications, ready to tackle real-world engineering challenges.
- **Software and Technical Skills:** Proficient in MATLAB and AutoCAD for simulation and design, alongside coding in JavaScript, Python, C++, and HTML. Strong ability to leverage technology for engineering solutions.
- **Data Analysis and Visualization:** Experienced in Minitab and Power BI for analyzing complex data sets, providing actionable insights that drive project decisions and enhancements.
- **Project Management and Leadership:** Proven ability to lead projects from conception through completion. Strong organizational skills with a focus on efficient task management and team collaboration to achieve project milestones on time and within budget.
- **Effective Communication:** Bilingual in English and Vietnamese, with the ability to convey complex technical concepts clearly to diverse audiences. Strong interpersonal skills that foster collaboration in team settings.
- **Technical:** Minitab, Power BI, MATLAB, AutoCAD, JavaScript, Python, C++, HTML
- **Project Management:** Team leadership, problem-solving, planning
- **Languages:** Fluent in English and Vietnamese
- **Software Proficiency:** Microsoft Office Suite.

AWARDS & ACTIVITIES

- Design and coding board code for robotics.
- **Dean's Honor Roll -** Fall 2019 & Spring 2020.
- **Study Coding Engineering -** Design and create a program.
- **First Place - Winner -** Design and produce a program for robots.