

Victoria Nguyen

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Motivated Mechanical Engineering student at UTSA pursuing Aerospace Engineering with a minor in Physics. Seeking an engineering internship or co-op to apply hands-on CAD, programming, and project management skills in a real-world setting.

QUALIFICATIONS

- Can lead a team and plan accordingly to be able to finish tasks and goals, all while being able to have a peaceful environment.
- Prioritized and executed time-sensitive communication strategies, balancing heavy project workflows with academic commitments to elevate organization visibility.
- Developed strong technical communication skills by translating complex engineering concepts like CAD models, electrical systems, and robotics logic into accessible and high-impact digital content for a diverse audience.

EDUCATION

University of Texas at San Antonio — B.S. Mechanical Engineering

Expected May 2027

Minor in Physics | Aerospace Engineering Focus

- Completed 53 dual-enrollment credits through Central Texas College (2021–2024), entering university with significant advanced coursework

SKILLS

Technical: SolidWorks, OpenRocket, AutoCAD, Blender, Python, Java, MATLAB, C++, Lua (Roblox Studio), Microsoft Office Suite, Google Workspace, Supabase (BaaS/API)

Fabrication: 3D Printing, Resin Casting, Physical Prototyping, Sewing, Hand Sculpting

AI & Automation: AI Prompt Engineering, LLM Optimization for code generation and technical documentation

Languages: English (native), Vietnamese (conversational)

PROJECTS

Custom Lighter Cases — Founder & Lead Designer | Anonymous Lighters

March 2026 – Present

- Designed and hand-fabricated custom lighter cases from concept to finished product, applying resin coatings to ensure thermal resistance and long-term durability
- Managed the full production pipeline — from initial CAD/Blender modeling and paper sketching through physical prototyping and final assembly — as the sole designer and operator
- Handled all inventory, supply sourcing, and direct customer communications, building a repeatable small-batch production workflow from scratch

Portfolio Website — Lead Developer | victorianguyen.dev

April 2026 – Present

- Designed and built a fully responsive portfolio website from scratch, including a custom orbital-mechanics-themed mini game as an interactive showcase of physics knowledge
- Implemented a live global leaderboard using Supabase as a Backend-as-a-Service, enabling real-time player score tracking across sessions with over 1,000 lines of original code
- Used AI prompt engineering and LLM optimization techniques to accelerate code generation and debug complex CSS layouts, cutting estimated development time significantly

EXPERIENCE

Luscious Dumplings — Bobarista

June – September 2025

- Prepared high volumes of specialty beverages to consistent quality standards in a fast-paced kitchen environment, maintaining food safety compliance throughout all shifts
- Demonstrated strong teamwork and composure under pressure during peak rush hours, supporting coworkers to minimize waiting times and uphold customer satisfaction

Andretti's — Cashier

June – August 2025

- Handled cash transactions accurately while balancing the register at close of each shift, maintaining a dependable record of financial accuracy
- Delivered friendly, patient customer service that contributed to a positive guest experience in a high-traffic entertainment venue

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

210 Robotics — Social Media Lead | UTSA

May 2025 – Present

- Drives the digital presence and outreach strategies for 210 Robotics, showcasing the team's hands-on engineering and VEX U meetings and competition milestones. From highlighting CAD design to managing public communications, amplifying the technical innovation to build community engagement and corporate visibility.

Rho Delta Chi — VP of Social | UTSA

May 2025 – Present

- Serve as VP of Social for a chapter focused on mental health awareness, organizing events and initiatives that promote well-being across the campus community

Society of Women Engineers (SWE) | UTSA

May 2025 – Present

- Participate in weekly professional development workshops and technical seminars to stay current on emerging mechanical and aerospace engineering trends

COMMUNITY INVOLVEMENT

UTSA Volunteer — New Resident Move-In Day

August 2025

- Assisted new students relocating into campus housing, contributing 2.5 volunteer hours to help ease the transition for incoming residents

San Antonio Food Bank — Volunteer

February 2026

- Collaborated with a team to sort and inspect food donations, applying quality control and food safety practices over a 2.5-hour service shift

CERTIFICATIONS & MEMBERSHIPS

- Texas Society of Professional Engineers (TSPE) - Member/Certification, March 2026