

Gael Hansen

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EDUCATION

The University of Texas at Austin

Austin, TX

Bachelor of Science in Civil Engineering

Aug. 2023 – May 2027

- **Relevant Coursework:** · Engineering Communications · Project Management & Economics · CAD · Materials · Structural Analysis · Geotechnical Engineering · Transportation Systems

EXPERIENCE

Tutor

August 2024 – Present

The University of Texas at Austin

Austin, TX

- Tutored students in calculus (I–III) and statics, focusing on core concepts and problem-solving techniques.
- Designed targeted lesson plans to strengthen students' understanding of math and engineering concepts.
- Developed practice exams and quizzes, improving student performance, with 100% achieving an A- or higher.

Purchasing Student Assistant

September 2023 – Present

The University of Texas at Austin

Austin, TX

- Managed invoices and financial records in FoodPro, ensuring timely and accurate processing.
- Maintained organized filing systems to support office operations.
- Assisted with office supply management, inventory control, and ordering supplies as needed.

PROJECTS

Certified CAD Drafter Portfolio | *AutoCAD*

June 2025 – August 2025

- Drafted a two-floor home to AIA standards with detailed floor plans, elevations, sections, and foundation plans.
- Produced subdivision plat and mortgage survey according to course CAD and surveying standards.
- Completed Autodesk Certified User AutoCAD exam, demonstrating proficiency in industry drafting workflows.

Portable BEVO Beacon | *C, Inventor*

August 2024 – December 2024

- Engineered a portable air quality monitoring system using a Sensirion SPS30 sensor and Raspberry Pi Pico.
- Attained 95% calibration accuracy against a research-grade sensor, ensuring reliable data collection.
- Analyzed air quality differences across CapMetro Rail, bus system, and automobiles to assess PM2.5 levels.
- Presented findings at an engineering research symposium, highlighting urban air quality insights.

Fariborz Maseeh Building | *Revit, Microsoft Excel, Python*

January 2024 – May 2024

- Partnered with other engineering students and developed teamwork skills.
- Proposed a 69,790 sq. ft. building to accommodate 29% growth in the civil engineering industry.
- Constructed structural, foundation, and drainage system plans using Revit and AutoCAD.
- Utilized Python and Excel for structural load calculations and cost estimation, ensuring an efficient design.

Pedestrian Bridge | *AutoCAD, Rhinoceros 7, Revit*

August 2023 – December 2023

- Conceptualized a pedestrian bridge concept for UT Austin's engineering campus.
- Produced detailed drawings in AutoCAD, including plans, elevations, and sections.
- Worked closely with a team of engineering students to design campus improvements.
- Assembled a design portfolio with structural sketches, 3D models, and Revit renderings.

TECHNICAL SKILLS

Software: AutoCAD, Civil3D, ArcGIS, Revit, Python, C, LaTeX, Microsoft Office 365

Certifications: Autodesk Certified User - AutoCAD, Microsoft Office Specialist

Languages: Fluent in English and Spanish