

George Shenouda, EIT

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Enthusiastic mechanical engineer with expertise in product design, 3D modeling, and process optimization.
Seeking a full-time position to leverage technical skills and leadership experience.

Education

University of Houston, Cullen College of Engineering

B.S in Mechanical Engineering

Dean's Honor List, 2020-2024

Passed Fundamentals of Engineering Exam

December 2024

GPA: 3.4

November 2024

Projects

Tundra Bed Light Redesign Project | Gulf States Toyota

May–September 2024

- Redesigned Tundra bed light, achieving 6,552 annual labor hours saved and \$10,500 reduction in tooling costs.
- Developed and tested 16+ Tundra bed light prototypes using 3D printing, ensuring design optimization.
- Presented a detailed business case to Maxton Manufacturing and handed off the project to their engineers for review.

Senior Capstone Design Project – CNC Handling Table | Borusan Pipe

January–December 2024

- Designed a modular CNC handling table in SOLIDWORKS to handle pipes up to 3,696 lbs. and validated a 1,000,000+ cycle lifespan.
- Built and tested a 1:6 scale prototype (modeled in SOLIDWORKS), achieving a 6.1 s kick-over time; full-scale design met Borusan's ≤ 8 s requirement vs. 28 s legacy.
- Performed structural analysis in ABAQUS with strain-gauge validation, confirming stresses were $>95\%$ below allowable limits.

Fluor 1-Day Engineering Design Challenge – “Pump It Up” | Fluor Corporation

March 2023

- Analyzed a 200,000-ft, 30-inch pipeline in AFT Fathom to determine optimal pump placement.
- Balanced hydraulic performance and \$682M excavation/construction costs, selecting a \$3M pump solution.
- Collaborated in a team-based 8-hour sprint, presenting recommendations directly to Fluor engineers.

Design Build Test (DBT) | University of Houston

August–December 2022

- Enhanced motor and sensor performance with custom Arduino code for faster, more accurate responses.
- Developed a detailed 3D CAD model using AutoCAD, enabling better visualization and streamlined design iterations.

Work Experience

Process Engineer | Gulf States Toyota

March 2025–Present

- Developed and implemented 55+ process documents while redesigning layouts across 16+ lift cells, standardizing work and improving efficiency.
- Facilitated Kaizen events and focus groups that enabled associates to drive 5% annual production time savings.
- Implemented rapid lean solutions that enhanced safety and delivered measurable cost savings of up to \$50K annually.

Product Engineer Intern | Gulf States Toyota

May 2024–March 2025

- Designed and 3D-printed 20+ tool holders, streamlining 5S processes and boosting efficiency.
- Prototyped and finalized Tundra bed light design, cutting install time by 30%.
- Built and deployed 232 CNC-routed shadow boards, improving tool access and reducing retrieval time by 20%.

Process Engineer Intern | Gulf States Toyota

May–August 2023

- Participated in cross-functional Kaizen events to identify and eliminate process waste, reducing cycle time by 15%.
- Executed A3 countermeasures to reduce specific exceptions and improve process flow.
- Designed a slim model hangtag using Fusion 360, eliminating material waste and saving \$50,000 annually in 3D printing costs.

Leadership & Service Experience

Teacher | Archangel Raphael Coptic Orthodox Church

January 2017–Present

- Teach Sunday school classes, fostering strong communication and organizational skills.
- Plan and chaperone church field trips, ensuring safety and engagement of participants.

Orthodox Christian Campus Ministries | Vice President

August 2023–May 2024

- Organized and executed two volunteer opportunities per month, involving 50+ participants across various events.
- Hosted campus events and meetings, boosting membership by 20% through active engagement.

Skills

Software: SOLIDWORKS, CREO, ABAQUS, Fusion 360, AutoCAD, MATLAB, Arduino IDE, Excel.

Tools: CNC routing (ShopBot), 3D printing (FFF)

Certifications: EIT, SOLIDWORKS Associate, Six Sigma (White/Yellow Belt), KT Problem Solving

Languages: English, Arabic