AYDEN GIFFEN

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Career Objective:

Highly adaptable mechanical engineering undergraduate pursuing an engineering internship, with a strong interest in emerging technologies and innovative mechanical systems. Aspires to become a licensed Professional Engineer (PE). Proficient in CAD software and experienced with manufacturing processes, machining, and mechanical design. Detail-oriented with hands-on automotive shop experience and the ability to perform effectively in fast-paced, high-pressure environments.

Education:

Texas A&M University - Corpus Christi 12/2026

Bachelor of Science in Mechanical Engineering,
Minor in Applied Mathematics (GPA: 3.2 / 4.0).

Kankakee Area Career Center 05/2022

Career and Technical Education Diploma in Automotive Technology,
Concentration in Electrical System Diagnosis and Repair (GPA: 4.0 / 4.0).

Relevant Skills:

- Proficient in Inventor, AutoCAD, and SolidWorks software, with three years of experience in 3-D modeling.
- Experience operating machine shop equipment (i.e. bandsaws, lathes, milling machines).
- Skilled in Microsoft Suite.
- Experience with Finite Element Analysis
- Proficient in interpreting electrical wiring diagrams.
- Experience with MATLAB and Python programming languages.
- Adept with air powered tools and specialized automotive repair tools (i.e. hydraulic hoists, alignment racks, tire machines, brake lathes)
- Blueprint interpretation and creation.
- Experience with metal inert gas (MIG) welding

Work Experience:

Administrative Assistant - Unity Hospice & Palliative Care (Merrillville, IN) 01/2026 - Present

- Assisted with a roster of over 200 Palliative PRN patients, acting as a direct link between their needs and the company.
- Assisted in maintaining electronic health records, ensuring compliance with HIPAA and state regulations.
- Supported healthcare providers and nurse practitioners with the timely completion of necessary documentation, allowing them to focus on quality patient care.

Automotive Lube Technician & Assistant Manager - Oil Town Express Services (Corpus Christi, TX) 02/2024 - 01/2026

- Serviced vehicles according to OEM recommended maintenance schedules for oil changes and fluid changes.
- Completed full vehicle inspections to check for leaks, damage, and other issues of concern. Replaced damaged, missing, or defective parts with new and refurbished components.
- Conducted product inventory price audits to ensure sales profitability.
- Completed opening and closing procedures for the automotive shop, ensuring equipment readiness, secure facility operations, and proper cash handling.

Automotive Technician - Bill Kay Honda (Bourbonnais, IL) 01/2022 - 07/2022

- Inspected vehicles and completed preventive maintenance, including alignments, oil changes, tire replacements, tire rotations, filter replacements, and basic MLR repair.
- Enhanced vehicle performance through diagnostic tests and repairs of faulty components.
- Maintained detailed records of time and materials for repairs and services.
- Ensured consistent repairs by following manufacturer and state guidelines. Conducted PDI and MPI checks to enhance vehicle safety.

Relevant Engineering Projects:

TAMUCC Capstone Project (Manager) – Hyundai Ventilated Seat Research and Design Present

- Designed and conducted a multi-semester IRB approved human subject research study to map subjective thermal sensitivity.
- Used collected data to create new optimized three seat ventilation prototypes and a second research study to compare the optimized designs with leading automotive manufacturers.
- Communicated between project mentor and team, scheduled meetings with team and sponsor companies, and developed scope of project to facilitate forward momentum of each project objective.

TAMUCC Manufacturing Processes Project – Dimensioning Tolerances for Interference-Fit Aluminum Assembly Fall 2026

- Machined 6061-T6 Aluminum round stock and flat bar to create a two-part assembly using a turning lathe and milling machine.
- Calculated tolerances for the shaft of the assembly to achieve an interference-fit that could withstand a torque load of at least 30 ft-lbs once pressed together.

Additional Accomplishments:

- Member of National Society of Technical Scholars (NTHS) and National Society of Collegiate Scholars (NSCS)
- Gained Seven Entry Level Automotive Service Excellence (ASE) Certifications
- Obtained OSHA 10 and Red Cross First Aid/CPR/AED Certifications

Organizations:

TAMUCC Math Club - Vice President
American Society of Mechanical Engineering (ASME) - Member
Society of Automotive Engineers (SAE) - Member