Trevor Schnedler, EIT

Skills

- CAD – Solidworks, FEA
- Manufacturing – Tig Welding, Mill & Lathe, CMM, Handheld Metrology, Supplier & Customer Communication
- Automotive– Engine Swaps, Diagnostics, Custom Wiring, RCM Data Collection & Analysis
- Tools & Systems – SAP, Windchill, MS Office, Python, AS9100, Engineering Change Notices

Engineering Work Experience

Quality Engineer, Albany Engineered Composites – Boerne, TX   June 2024 – February 2025
- Produced QC work instructions, check fixtures, and assembly tooling to ensure part compliance
- Facilitated audits from customers and certification bodies
- Performed defect containment, mitigation, RCCA
- Produced AS9102 First Article Inspection Reports

Engineering Intern, Crash Engineer LLC – San Antonio, TX   June 2023 – April 2024
- Assisted in 25+ investigations of motor vehicle collisions with ongoing litigation
- Collected critical 'black box' data and performed kinematic analysis of collisions
- Captured and processed Faro 3D laser scans of collision sites and vehicles for event reconstruction

Advanced Manufacturing Engineer Intern, Peterbilt – Denton, TX   Summer 2022
- Fabricated prototype parts to ensure proper fitment before procuring tooling
- Evaluated new designs for impact on production (time studies, Poka-Yoke, installation accessibility)
- Met with suppliers to address ongoing defects

Projects

Mazda RX8 Race Car   2024
- Brought a $1400 salvage car to race wins against modern $20,000 competition
- Reverse engineered factory LCD to display oil pressure, temperatures via auxiliary sensors and Arduino on CAN bus
- Troubleshot numerous issues via data logging – intermittent voltage drops, misfires, servo failures, etc.
- Reprogrammed factory ECU via open-source flashing & rom editing software

Baja SAE Cars – Texas A&M University   2023
- Designed and fabricated two unique, single seat off road race cars from scratch
- Worked with complex SolidWorks assembly designs and FEA stress simulations
- Responsible for ergonomics and controls of chassis - steering column, driver restraints, seat mount, controls
- Applied real world tests to iterate on & validate design (chassis torsional rigidity, ergonomics test with rebar frame)

LS Swap Chevy Colorado   2022
- Replaced factory engine with a 5.3L V8 and manual transmission.
- Increased gross power output by more than 2x while retaining all factory controls and features in a reliable package
- Integrated factory instrument cluster, cruise control, A/C with new engine control module
- Fabricated custom exhaust system, AC lines, cooling system, engine mounts

Education

Texas A&M University – B.S. Mechanical Engineering | *Magna Cum Laude*   May 2024

Certifications

Engineer in Training (EIT) – Texas Board of Professional Engineers and Land Surveyors   EIT #82156
FAA Part 107 Remote Pilot   Certificate # 4875226