Logan Davis

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EDUCATION

Texas A&M University, Mays Business School College Station, Texas
Master of Business Administration *(Available to begin full-time: June 2025)* August 2026

Texas A&M University, College of Engineering College Station, Texas
Bachelor of Science in Manufacturing & Mechanical Engineering Tech May 2025

EXPERIENCE

HAAS Factory Team NASCAR Racing Charlotte, North Carolina
Motorsports Engineering Intern June 2025 – August 2025

- Programmed and operated 7-axis Hexagon Romer Absolute CMM with Autodesk PowerInspect to model and quality check 100+ vehicle parts weekly, including critical geometries on each vehicle chassis
- 3-D scanned vehicle bodies with ATOS 5 and photogrammetry, created aero bodywork heat maps with GOM and modified aero kit to minimize drag and/or optimize downforce for each unique track
- Performed 200+ brake caliper hardness and load-deflection tests and correlated caliper mileage, age, and thermal fatigue with caliper performance, installed the top performing calipers on our vehicles
- Fabricated and welded a custom suspension system for air intake ducting in a dynamometer cell
- Used macros and python coding to consolidate chassis and suspension CMM measurement data, calculating real-life vehicle setup parameters, instructing setup engineers to adjust suspension for optimal geometry

Texas A&M University Formula SAE Racing College Station, Texas
Powertrain Engineering Team Lead, CNC Machinist, Welder August 2024 – June 2025

- Led a team of 9 engineers to design from scratch, build, test, and tune a powertrain subsystem for a formula class vehicle, placing 1st of the American teams and 2nd overall globally vs. 100+ universities
- Welded CP-1 titanium headers, 4130 Cr-Mo chassis components and A-arms, and aluminum intake, oil pan and fuel cell, shaving 20 lbs. and lowering vehicle center of gravity by 5%
- Programmed Haas TL-2 CNC lathe with Mastercam to machine custom hubs, carbon fiber rod inserts, anti-roll arm blades, titanium exhaust flanges, and precision weldment fixtures
- Leveraged SolidWorks to design and optimize custom performance parts to minimize engine throttle response and drivetrain losses, whilst utilizing minimal weight and frontal area

National Oilwell Varco (NOV, Inc.) Navasota, Texas
Mechanical Engineering Intern June 2024 – August 2024

- Developed and tested pipeline and structural supports for a 5MW electric reciprocating-piston fracking pump rated for 15,000 PSI at 500 GPM
- Engineered a permanent system to pump hazardous wastewater off site, supporting safe operation of fracking
- Modeled and simulated parts in SolidWorks; created detailed part/assembly drawings and bill of materials for production, used Excel solver to perform cost analysis and choose vendors for minimizing material costs

National Oilwell Varco (NOV, Inc.) Cedar Park, Texas
Production Welder August 2022 – September 2023

- TIG welded and surfaced structural frames, tooling, and sheet metal protective enclosures for sensitive computer and sensory equipment (~90% stainless steel)
- Fabricated custom innovative welding jigs, improving overall production capacity and quality, reducing costs
- Upheld strict quality standards, conducted nondestructive testing, and created detailed production logs, increasing part quality and traceability

SKILLS & INTERESTS

Technical Skills: SolidWorks, Excel, Python, CNC Machining (Mastercam), Welding/Fabrication, 3D Scanning
Interests: Motorsports engineering, Engine and machinery restoration, Mountain biking, Classic cars