Davin Miles

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Education

Auburn University, Auburn, AL • *B.S. Mechanical Engineering* • May 2026 • GPA: 3.79 / 4.00

Relevant Coursework: Advanced Powertrain Systems, System Dynamics & Controls, Manufacturing Lab

Experience

Rausch & Pausch LP, Auburn, AL • *R & D Lab Intern* • Summer 2024 & Summer 2025

- Machined prototype fixtures and components on manual and CNC mills
- Implemented a 5S shadow-foam tooling system that cut retrieval time and reduced tool misplacements, improving R&D operational efficiency and organization
- Supported lab tests with custom wiring harnesses; executed pneumatic tests with oscilloscope measurements; assembled both low-volume and pre-production components

Auburn University Recreation Center, Auburn, AL • *Bike Shop Lead and Tech* • January 2023 - Present

- Led daily operations, trained new student techs, and streamlined repair intake and processes
- Designed and implemented a new shop layout, doubling service capacity, improving tool accessibility, increasing parts storage, and establishing a professional-looking environment
- Established a work environment focused on communication and constructive employee relationships

MOAB Bike Shop, Franklin, TN • *Bike Mechanic and Sales* • July 2020 - August 2022; Summer 2023

- Performed advanced repairs and tune-ups in a high-volume environment
- Advised customers and closed sales with fit assessments and accessory suggestions
- Navigated operational hurdles such as supply chain issues, managing staffing, and communication

Projects & Publications

BMW E39 Parts Business

- Disassembled a 1999 528i; cataloged and sold parts online, selling 50+ parts and generating >$1700

Subaru Crosstrek Blind Spot Monitoring and Rear-Cross Traffic Alert Retrofit

- Retrofitted OEM radar sensors; integrated with CANBUS for full BSM & RCTA functionality

Subaru Crosstrek 360 Degree Camera

- Designed a camera switcher that triggers views using multi-input logic from vehicle systems data

Custom 2-Way 60-Watt Active Bookshelf Speakers

- Engineered stereo speakers; applied acoustic equations and crossover tuning for flat frequency response

Subaru XV Forum *User ID: dmiles2493*

- 9 detailed retrofit write-ups totaling to 100k+ views; 300+ technical posts/replies

Skills & Leadership

CAD & Manufacturing - Inventor, AutoCAD, SolidWorks, MATLAB, CNC/Manual mill & lathe

Certifications - Shimano TEC, CPR, AED, First Aid

Franklin High Cycling Team – *Team Member & Representative*   August 2018-November 2022