



Collin Phillips

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OBJECTIVE

Motorsport engineer pursuing Automotive Engineering degree at Clemson University. Passionate about aerodynamics, composites, simulation, and vehicle dynamics.

EDUCATION

Bachelor of Science Automotive Engineering

Clemson University

Spring 2026

Clemson, SC

Relevant Coursework: Vehicle Dynamics, Advanced Composites, Advanced Manufacturing, Vehicle Testing and Characterization, Human Factors, Energy for Mobility, Motorsports Engineering

RELEVANT EXPERIENCE

BorgWarner Assembly/Quality Co-Op

Co-Op, Clemson University

Summer 2024 – Summer 2025

Clemson, SC

- Redesigned tooling and retooled half of an assembly line for a major case change, preventing costly downtime by eliminating the need for a 3-week tooling delay
- Designed and implemented new tooling to aid with rear output seal being seated at the correct depth within the transfer case
- Recreated drawings for parts which were being used on the assembly line but which were not catalogued within internal systems, preventing multi-day tooling downtimes and allowing for the iterative design process to resume
- Conducted multiple audits of the Battery Assembly department to prepare for a large-scale external audit, preventing hundreds of findings after reviewing FMEAs, saving thousands of dollars
- Led efforts in Error proofing and Reverse PFMEA to ensure that various processes were catching failed parts
- Worked in IMDS to ensure that multiple transfer cases were correctly catalogued within the system, and had the most recent revisions of their respective parts referenced within the system
- Implemented several new processes to lower cycle time on multiple assembly lines by minimizing movement waste
- Created several new internal documents to more effectively show when layered process audits needed to be conducted, as well as a department-by-department breakdown of which individual processes and people needed to conduct their audits
- Communicated and coordinated with other Co-Ops, tool makers, and engineers to manage simultaneous cross-functional projects

Head of Composites/Aerodynamics Baja SAE

Baja SAE, Clemson University

Spring 2025 - Present

Clemson, SC

- Studying composite layups and processes
- Managing new members
- Aiding other team leads with FEA and SolidWorks modeling where applicable
- Using CFD/FEA to conduct analysis of new or revised components to increase vehicle performance
- Assisting with information sessions and recruitment of new members

National Finalist in Nasa Wear Competition

Nasa Wear Team, Wando High School

Fall 2019 – Winter 2020

Mt. Pleasant, SC

- Led documentation and technical presentation efforts
- Managed team meetings and research regarding radiation and relevant calculations
- Worked within strict boundaries of no more than five pounds for the full helmet and no particle penetration within the 99th percentile as well as maintaining sight lines and low moments of inertia on astronaut's head
- Selected final design for the helmet based off a hybrid between a motorcycle helmet and ski helmet
- Researched manufacturing processes and materials to find optimal balance of weight and radiation protection

WORK EXPERIENCE

Delivery Specialist

Winter 2020 – Summer 2022
Mt. Pleasant, SC

Mercedes-Benz of Mount Pleasant

- Aided clients with new vehicle delivery process
- Organized and managed new and used inventory
- Coordinated large scale reorganization involving multiple personnel and dozens of cars
- Conducted multi-stage vehicle inspections for new vehicles coming off delivery trucks
- Assisted salespeople with product knowledge

HONORS AND ACTIVITIES

Palmetto Fellows Recipient

Fall 2022 - Present

SolidWorks Cad Design Associate

Spring 2023 - Present

TECHNICAL SKILLS

SolidWorks - Proficient

Inventor - Proficient

Python - Basic

MATLAB – Proficient

Ansys – Basic

IMDS – Proficient

FMEA Pro – Proficient