

Grayson Briles

(817) 307-8827
gray.briles@yahoo.com

Mansfield, TX – West Lafayette, IN

gbriles@purdue.edu
linkedin.com/in/gbriles

EDUCATION

Purdue University – West Lafayette, IN <i>Bachelor of Science in Mechanical Engineering</i> <i>Pursuing a Minor in Intellectual Property Law for Engineers</i>	Grad. May 2026 3.42 GPA
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EXPERIENCE

Bell Flight – Fort Worth, TX <i>Mechanical Engineering Intern, Supply Chain Management Dept.</i> <ul style="list-style-type: none">➤ Coordinated with engineers and technical specialists to assess viability of potential changes to aircraft component designs and design requirements to alleviate manufacturing issues and delays➤ Created new 3D part models in CATIA V6 using 2D drawings and digital scans of existing 3D parts to support legacy commercial and military aircraft programs	June 2024 – Present
Bell Flight – Fort Worth, TX <i>Supplier Quality Engineering Intern, Supplier Quality Assurance Dept.</i> <ul style="list-style-type: none">➤ Conducted technical process audits of third-party suppliers of aircraft components➤ Performed root cause corrective action on defective parts to resolve manufacturing challenges and ensure quality➤ Created an Excel VBA software tool for in-house auditing of composite curing processes while ensuring user-friendliness and adaptability, reducing audit time	May 2023 – August 2023

ACTIVITIES & LEADERSHIP

Formula Society of Automotive Engineers (FSAE) – Purdue University <i>Brakes Subsystem Owner</i> <ul style="list-style-type: none">➤ Designed braking components to maximize strength-to-weight ratio and manufacturability utilizing Siemens NX and ANSYS for 3D modeling and FEA, resulting in the lightest braking system in recent history➤ Manufactured all braking components on a 3-axis CNC mill using Fusion 360 and Mastercam➤ Iterated the design according to driver feedback and analysis of unexpected material interactions	October 2022 – May 2024
Purdue Electric Racing (PER) – Purdue University <i>Member</i> <ul style="list-style-type: none">➤ Designing the braking system for the 2025 competition vehicle	June 2024 – Present
Purdue Mechanical Engineering Ambassadors (PMEA) – Purdue University <i>Student Events Committee Head</i> <ul style="list-style-type: none">➤ Planning, organizing, and delegating responsibilities for workshops, social events, and other educational experiences for current and prospective mechanical engineering students➤ Participating in outreach programs with K-12 students engaged in STEM	November 2023 – Present
Honors Engineering – Purdue University <i>Honors First Year Engineering Teaching Assistant</i> <ul style="list-style-type: none">➤ Helped engineering students strengthen understanding of concepts in physics, statistics, programming, and more➤ Supporting the logistics of the course, such as project demonstrations and exam review sessions	February 2024 – Present
Eagle Scout – Troop 222, Arlington, TX <i>Senior Patrol Leader, Quartermaster, and Troop Guide</i>	September 2016 – April 2022

PROJECTS

Sophomore Design: Worked with a group of mechanical engineering students to design and prototype a multi-purpose vehicle intended for use by first responders to protect accident scenes on highways from collisions by passersby

Honors Engineering: Worked with a team to design, program, and build robotic vehicles for accomplishing simulations of real-world tasks, such as remote emergency disaster relief and extraterrestrial exploration operations

SKILLS

Modeling & Analysis Software: Siemens NX (Unigraphics), CATIA V6, ANSYS (FEM/FEA), Fusion 360

Manufacturing Skills: GD&T, Fusion 360 CAM, Mastercam, CNC 3/4-Axis Milling, 3-Axis Manual Mill, Manual Lathe

Programming Languages: MATLAB, Python, C, VBA, LaTeX

Other Software: Excel, Word, PowerPoint, SAP, ENOIVA, Power BI