

AMIR BREWER-LAW

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EDUCATION

North Carolina Agricultural & Technical State University

Greensboro, NC

Bachelor of Science – Mechanical Engineering

Aug 2022 – May 2026

Dean's List 2022 – 2023

Radio Flyer NSBE Outstanding Student Award - Nov 2024

Relevant Coursework:

Strength of Materials

General Physics I, II

Calculus I, II, III

Graphics for MEEN

Fundamentals of Thermodynamics

Engineering Statistics

Mechanic I Statics

Manufacturing Processes

PROJECTS & SKILLS

RC Car Using Arduino | *Arduino Project*

Sep 2023 - Nov 2023

- Designed and built an RC car using 3D-printed parts designed in SolidWorks, incorporating crash detection sensors and Arduino programming for precise control and obstacle avoidance. Delivered a high-quality solution that exceeded project requirements.

SolidWorks(CAD) | MATLAB | C/C++ | HTML | CSS | Arduino | Data Collection | Data Analysis |

Microsoft Excel | Machine Learning | Project Management | Prototyping & Fabrication | Conflict Resolution |

Problem Solving | Critical Analysis | Time Management | Collaboration | Communication

PROFESSIONAL EXPERIENCE

Radio Flyer “Take Flight” Externship | Professional Development *Extern*

Greensboro, NC

March 2025 - Present

- Engaging in a 5-week immersive program focused on career-building workshops, resume enhancement, interview preparation with personalized feedback, and mentorship with industry professionals through virtual sessions and hands-on assignments.

Life Champions LLC | *Paraprofessional*

Greensboro, NC

Nov 2024 - Present

- Support adolescent residents in academic, social, and career development by facilitating structured daily living skills, vocational training, and school collaboration while ensuring safety through search and seizure procedures, medication administration, progress documentation, and crisis management.

FedEx Ground | *Package Handler*

Chicago, IL

Jun 2023 - Aug 2023

- Compiled, scanned, sealed, and loaded packages while following precise instructions, collaborating with a team to handle products weighing up to 80-100 pounds, and processing 100-150 packages per minute to maintain efficient deliveries.

Portillo's | *Team Member*

Chicago, IL

Sep 2019 - Aug 2022

- Trained and assisted new employees with food preparation, order fulfillment, and customer service while maintaining a professional and friendly environment, increasing repeat customers; restocked supplies, cleaned, and organized the store to improve overall efficiency.

LEADERSHIP & ORGANIZATIONS

National Society of Black Engineers (NSBE) | *Member*

Greensboro, NC

Sep 2024 - Present

- Facilitate STEM workshops and educational challenges for students in grades 3-12 while supporting Black STEM students' academic and professional development through networking, event coordination, and community service initiatives like food pantry volunteering.

Aggies for Engineering and Community Enrichment (AECE) | *Social Media Committee*

Greensboro, NC

Sep 2024 - Present

- Lead STEM-focused mentoring programs, organize environmental service projects like water stream cleaning, and develop engineering initiatives to inspire youth by applying mechanical and engineering principles to real-world challenges.

The Mial Foundation GSO | *Member*

Greensboro, NC

Sep 2024 - Present

- Collaborate with local educators to provide academic tutoring, financial literacy workshops, and one-on-one mentorship while leading mental health discussions and supporting middle school students' academic growth and personal development.

Kappa Leadership Institute of Chicago | *Member*

Chicago, IL

Sep 2018 - Jun 2022

- Created and maintained an effective team environment through collaboration and communication, modeling strong organizational and multitasking skills in a deadline-driven setting.
- Completed assignments ahead of schedule and assisted clients with produce, hygiene products, COVID-19 testing, and other essential resources.