

Auston Terrell Parker

Undergraduate Physics and Engineering Student

My interest and passion for learning new things drives me to pursue a career in engineering. By studying mechanical engineering, I believe I can truly leave a lasting positive impact on my community and the world.

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EDUCATION

3+2 Physics & Mechanical Engineering

North Carolina Central University(Physics B.S.)

08/2021 - 05/2024, GPA:3.875
Courses

North Carolina State University(Mechanical Engineering B.S.)

08/2024 - 06/2026

RESEARCH/WORK EXPERIENCE

Student Researcher

DreamSTEM Research Development Institute

06/2021 - 08/2021, Durham, NC
Achievements/Tasks

- Developed researching and modeling skills, to create a unique market product using microcontrollers and circuitry.
- Created resistorSorter a resistor sorting device to reduce e- waste and increase sustainability.

Contact : Ceaser Jackson - crjackson@nccu.edu

Tanina Bradley tbradle9@nccu.edu

Student Researcher

Partnership for Research & Education in Materials

08/2021 - Present, Durham, NC
Interschool (NCCU & Penn State) research partnership with a focus on physics and chemistry-based material science.

Achievements/Tasks

- Material Science research on synthesis of Bismuth Oxytelluride 2d nanoparticles for peroxidase imitation and glucose sensing.
- Computational Material Science using Quantum Espresso to simulate material properties with density-functional theory and pseudopotentials.

Contact : Yongan Tang - tangy@nccu.edu

Intern

Bluford Healthcare Leadership Institute

05/2021 - 08/2023, Kansas City, MO
A prestigious development, research, and internship program focused on the development of cross-disciplinary scholars ready for work in the healthcare field.

Achievements/Tasks

- The program includes a first-year research development institute and a second-year internship in a discipline-related medical company (JE Dunn Construction.)

Contact : Cargill Cynthia - cynthia.cargill@blufordinstitute.org

ORGANIZATIONS

Partnership for Research & Education in Materials

(10/2021 - Present)

Participating in computational material science research under Dr. Tang using density-functional theory and Quantum Espresso.

Material Science research on synthesis of Bismuth Oxytelluride 2d nanoparticles for peroxidase imitation and glucose sensing.

National Society of Black Physicists (06/2021 - Present)

Organization to promote opportunity and well-being for black physicist and engineers enrolled in physics.

Serving as boards communications manager developing website and social media profile.

Mens Achievement Center (08/2021 - Present)

Organization for the enriching of academic and collegiate experience for minority males at NCCU.

NCCU Honda Campus All-Stars Challenge Quiz Bowl

(11/2021 Present)

Varsity Team Member - Competed and quizzed on the understanding of a wide variety of knowledge fields, particularly in STEM.

DISTINCTIONS/AWARDS

Cheatham-White Merit Scholar (08/2021 - Present)

Prestigious full ride academic merit scholarship for North Carolina Central University.

NCCU Outstanding Freshman in Physics (04/2022)

Awarded for outstanding academics and understanding of physics and its related classes at North Carolina Central University

DreamSTEM Scholar (06/2021 - Present)

NSF funded scholarship for students enrolled in STEM related research experiences at NCCU.

NCCU Honors Programs/ Chancellors Scholar

(08/2021 - Present)

Enrolled in the NCCU Honors Program, and award the NCCU chancellors scholarship a merit scholarship in recognition of academic performance.

HBCU New Venture Competition Finalist

(10/2021 - 12/2021)

Pitched resistorSorter company in front and investors and executives developing entrepreneurial skills while competing for funding.

VOLUNTEER/LEADERSHIP EXPERIENCE

Buddy, Coach

Miracle League of the Triangle

10/2018 - 05/2021, Cary, NC
The Miracle League of the Triangle creates positive life experiences for individuals with special need and rewarding volunteer experiences through baseball.

Tasks/Achievements

- Coached and led differently-abled buddies through events and activities related to baseball.

HARD SKILLS

CAD/3D Modelling: Autodesk Inventor, Solidworks, AutoCAD, 3ds Max, Blender

3D Printing: G Code, Cura, Lulzbot, Eiger

Programming & Excel: Visual Basic, C#, C++, Visual Studio Python, MATLAB, Quantum Espresso, Html, CSS, JS, BATCH, Visual Basic Script

Design & Image Editing: Office Suite, Adobe Suite, Gimp

SOFT SKILLS

Quick Learner

Sociable

Dedicated

Technology-Oriented

Flexible

Resilient