

Vincent Agbeibor

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EDUCATION

University of Virginia

B.S. Mechanical Engineering; Minor: Engineering Business

Charlottesville, VA

Expected Graduation: May 2028

- GPA: 3.6/4.0
- Honors: Epsilon Delta Boulé Scholar, 200+ Men Scholar, M.O.C.H.A Scholar

EXPERIENCE

Mechanical Engineering Intern

UVA Department of Mechanical Engineering

May 2026 – Present

Charlottesville, VA

- Designed a three-shaft, four-gear apparatus in SolidWorks and authored a laboratory manual for planned use by 100+ students to investigate torque, angular acceleration, and mechanical efficiency.
- Fabricated 3D-printed components and developed manufacturing drawings for custom gears, keyed shafts, and modular frames, refining tolerances for smooth gear meshing and precise bearing press-fits.
- Modeled gear train dynamics and reflected component inertias in MATLAB, integrating PASCO sensors to compare measured acceleration and efficiency with theoretical predictions.

Mechanical Design Engineer

Cavalimbs Engineering Club

June 2026 – Present

Charlottesville, VA

- Design custom prosthetic mechanisms in SolidWorks and fabricate 3D-printed prototypes, collaborating with teammates to troubleshoot mechanical fit and refine component tolerances for affordable mobility solutions.

Operations Supervisor

Memorial Gymnasium

Jan. 2025 – Present

Charlottesville, VA

- Coordinate daily recreation operations within a team of 50+ staff members, delegating shift responsibilities, maintaining accountability for facility needs, and monitoring patron safety.
- Manage up to 50 outdoor facility reservations weekly, coordinating space usage and communicating reservation details.

Research Intern

Greyhound Energy

July 2025 – Sept. 2025

Abidjan, Ivory Coast

- Analyzed technical and commercial invitations to tender for oilfield equipment and services, comparing customer requirements and recommending ways to differentiate company proposals under strict submission deadlines.
- Examined sourcing and acquisition processes for drilling materials, fishing equipment, and production chemicals, connecting equipment procurement decisions with customer specifications and contract fulfillment.

PROJECTS

Amani Medical Foundation | Accra, Ghana

May 2025 – Present

- Research medical equipment and update the foundation's website to support development of a pediatric and women's hospital in Ghana.

Pickleball Paddle Pressure Gauge | Charlottesville, VA

Jan. 2025 – May 2025

- Designed the complete prototype casing and clamp components in CAD to house the battery, Arduino, and electronics, contributing C++ programming to process sensor readings and display paddle resistance measurements.
- Conducted 50+ tests across approximately five paddles to evaluate resistance readings at different levels of wear.
- Co-authored technical documentation in a five-person team, placing among the top 7 of 157 projects and presenting to 100+ clients and professors.

SKILLS, CERTIFICATIONS, AND AWARDS

Technical Skills: SolidWorks, AutoCAD, 3D Printing, Prototyping, MATLAB, Python, PASCO Sensors, Microsoft Office

Awards and Certifications: SOLIDWORKS Design Associate, AP Scholar with Distinction, NAACP ACT-SO