

Boluwatife Sokan

Cell: +1 (929) 622-3493 Email: bsokan2003@gmail.com LinkedIn: linkedin.com/in/boluwatife-sokan-70bba5238

ENGINEERING EXPERIENCE

Cornell Design, Build, Fly Project Team (CUDBF), Ithaca, NY, *Aerodynamics & Controls Engineer* **Sept 2024 – Present**

- Designed and manufactured wings and control surfaces for glider-carrying RC aircraft
- Detailed design process features the use of flight dynamic software such as XFLR5 and other sites to select and optimize the configuration of the proposed aircraft.
- CAD software Solidworks is used to design plane to the finest detailed and prepared to be manufactured.
- Manufacturing entails CAD models to be converted to some 2D prints for laser cutting, 3D prints, and finally full assembly of all components.
- Flight test procedures include control surface loaded and unloaded deflection tests, static and dynamic thrust tests, and CG balance tests. Preparing for annual AIAA design, build, fly competition in 2026
- Collaborating with mechanical, propulsion, and business teams to make the most lightweight, efficient, performance aircraft possible

Lockheed Martin Rotary & Mission Systems (RMS) – C6ISR, Manassas, VA, *ESH Engineer Intern* **June 2025 – Aug 2025**

- C6ISR is a line of business within RMS that provides command, control, communication, computers, intelligence, surveillance and reconnaissance solutions and products for US and other allied military services.
- Leading project team that is updating and optimizing ESH program directory across the RMS business.
- Collaborating with other ESH professionals to optimize the system so that updates are logged more frequently and new status reports will highlight pending changes and completed changes. 53% increase in updated ESH program information post-update
- Over 70 controlled waste units inspected and verified during pre-audit check.
- Pre-audited Sonobuoy and other production labs for environmental, safety, and health compliance
- Observing rigorous undersea hardware testing procedures that include impact, vibration, thermal, pressure tests, and more. During these tests, the ESH team and I highlighted any electrical, fire, and other safety hazards and informed the relevant department.

Corning Inc. (Environmental Technologies CET), Corning, NY, *Engineering & Manufacturing Intern* **June 2024 – Aug 2024**

- Worked as Finishing Department engineer at Diesel plant - manufactures ceramic substrates and filters for heavy-duty diesel combustion engine, truck, construction, and agricultural equipment
- Redesigning and installed new finishing line mechanism to save company \$55,000 and 75 hours of annual downtime
- Utilized Solidworks to design iterations of the new mechanism. Final design was approved by department and engineering heads. After approval, CAD model was converted to drawing and sent to local machine shop for production
- Tested mechanism on manufacturing line with positive feedback and multiple orders were placed to switch out the remaining older ones.
- Project leader of industrial robot path optimization. Worked with controls engineers, robot technicians and plant mechanics to complete task. Increased parts per hour of automated zone in manufacturing line
- Met and connected with executives such as Corning Inc. CEO (Wendell Weeks), CHRO, and VP of CET

Subsea 7, London, UK, *Engineering Intern* **July 2021 - Aug 2021**

- Engaged with subsea engineering, construction, and services within the offshore energy industry with a focus on oil and gas
- Designed model and tested a 'Christmas Tree' – mechanical subsea structure that connects main pipe to seabed
- Presented a \$35B oil extraction project proposal to a board of engineering managers, using excel, oil field maps, and more entailed the analysis of engineering, procurement, construction, installation, (EPCI) procedures

Springpod, Virtual, *Engineering Intern* **June 2021 - July 2021**

- Engaged with industry professionals that provided insights on life of engineering in different fields
- Completed civil, mechanical, and other engineering assignments that focused on real life scenarios

EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Aug 2022 – Dec 2025**

B.S. Mechanical Engineering (Dec '25 early grad)

Relevant Courses: Calc 1-3, Lin Algebra, Physics: (Heat, E&M, Waves, Quantum), Statics and Mech of solids, System Dynamics and Controls, Fluid Dynamics, Mechanics of Engineering Materials, Thermodynamics, Mechanical Synthesis & Design, Materials Science, CS, Prob & Statistics, Gen Chem, Mechatronics, Heat Transfer, Aircraft & Rocket Propulsion, Wind Power, Fluids Lab

City of London School, London, UK **Sept 2015 - June 2022**

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SPECIALIZED + TECHNICAL SKILLS

SolidWorks, Fusion 360. MATLAB, Python, R, C/+, XFLR5 (flight dynamics) CNC & Machine shop trained, Microsoft Excel, Microsoft office, video editing, Arduino, computational fluid dynamics (CFD) ANSYS, technical documents/reports, technical drawings, AC and DC power circuits, electrical signal processing, oscilloscopes, function generators. Assembly, integration, and test experience

Languages: English (1st language), Yoruba (Intermediate)

OTHER PROFESSIONAL WORK EXPERIENCE

Cornell Mechanical & Aerospace Engineering (MAE) , Ithaca, NY, <i>Office Admin</i>	Sept 2024 – May 2025
<ul style="list-style-type: none">Providing customer service, mailroom, and other administrative assistance in the MAE office	
Cornell Civil and Environmental Engineering (CEE) , Ithaca, NY, <i>Administrative Assistant</i>	Jan 2024 – May 2024
<ul style="list-style-type: none">Facilitating logistical operations with CEE faculty and graduatesLearned about rigorous processes of engineering from an educational perspectiveDocumenting over 400 reports and updates of CEE alumni	
National Health Service (NHS)/Modality Partnership , Crawley, UK, <i>Administrative Secretary</i>	July 2023 - Aug 2023
<ul style="list-style-type: none">Processing and filing of around 500 clinical documents of the NHS and other private GPs per dayAssisted doctors and nurses with patients' appointments mostly within Gynecology department	
A.D. White House , Ithaca, NY, <i>Events Assistant</i>	Sept 2022 - May 2023
<ul style="list-style-type: none">Managed event operations of Society for Humanities in Cornell building, A.D.White	
City of London Corporation , London, UK, <i>Culture and Commerce Taskforce</i>	Aug 2021 - Sep 2021
<ul style="list-style-type: none">Collaborated with the Lord Mayor of London and OBEs to tackle the rejuvenation of the creative industry in LondonCreated ways to educate students on creative career paths and opportunities, covering over 10 boroughs of London	

LEADERSHIP EXPERIENCE

Engineering & Physics Club , City of London, UK, <i>Co-founder</i>	Sept 2021 - June 2022
<ul style="list-style-type: none">Lead weekly meetings with members to discuss and analyze current engineering & physics hot topicsMaintain relationships with 3 other co-founders to see how we can incorporate new technology into innovations	
Afro-Caribbean Society , City of London, UK <i>Co-leader</i>	Sept 2021 - June 2022
High School Basketball Varsity team , London, UK, <i>Captain</i>	Oct 2021 - June 2022
Ivy House Leadership and Talent Development Program , London, UK, <i>award recipient</i>	Sept 2020 – June 2021

CAMPUS INVOLVEMENT

Cornell University Jazz Ensemble , Cornell University, <i>Drummer</i>	Sept 2023 - Present
After 6 Music – DownBeat Magazine award winners, Cornell University, <i>Drummer</i>	Sept 2023 - May 2024
National Society of Black Engineers (NSBE) , Cornell University, <i>Member</i>	Aug 2022 - Present
Diversity Programs in Engineering , Cornell University, <i>Cornell Simmons Scholar</i>	Oct 2022 - Present

ADDITIONAL

Salvation Army Centre Ithaca, NY, <i>NSBE Volunteer</i>	Sept 2024 - Present
Christian Community Church (CCC) , Ithaca, NY, <i>Worship team band member</i>	Jan 2023 - Present
Refurbished local basketball court , South London, UK, <i>Volunteer</i>	May 2020
British Army Reserve Basic Training , Folkstone, UK, <i>Army Reserve</i>	July 2019