Profile			
Which Boards would you	like to apply for?		
Energy Advisory Commission:	: Submitted		
Please select your first B	Board preference: *		
✓ Council on Fitness and Hea	alth		
Please select your secon	d Board preference: *		
	Commission		
Please select your third	Board preference: *		
₩ Water Partnership			
Please select your fourth	n Board preference: *		
	<u> </u>		
Please select your fifth E			
Citizen's Energy Advisory	<u> </u>		
Please select your sixth ✓ Water Partnership	board preference: **		
water raithership			
HIMABINDU	YAMANA		
First Name	Middle Last Name Initial		
2143 Stegemann Street			
Street Address		Suite or Apt	
Apex		NC	27502
City		State	Postal Code
What district do you live	in?		
None Selected			
Home: (469) 286-7160 Primary Phone	Home: (469) 286-7160 Alternate Phone		
himabindu.yamana@gmail.cc	om		

Submit Date: Sep 15, 2025

If you live in an Extraterritorial Jurisdiction Area, select Yes:

○ Yes ⊙ No

In order to assure countywide representation, please indicate your place of residence:

Apex

Interests & Experiences

Why are you interested in serving on a Board or Commission?

As a Digital Engineering Leader at Schneider Electric, the world's most sustainable company, I am deeply committed to advancing energy efficiency, digital innovation, and sustainability. Schneider Electric's mission—to empower all to make the most of our energy and resources, bridging progress and sustainability for all—is not just a corporate statement; it's a personal calling that aligns with my values and professional purpose.1 With over 17 years of experience in embedded firmware and systems engineering, I lead initiatives that bring smart, connected, and sustainable products to life. My work sits at the intersection of technology and impact, and I believe that local communities are key stakeholders in the energy transition. Serving on the Energy Advisory Commission would allow me to contribute my technical expertise and strategic insight to help shape resilient, future-ready energy policies and infrastructure. I am particularly passionate about inclusive leadership and empowering underrepresented voices in technology. I see this role as an opportunity to advocate for equitable access to sustainable energy solutions and to help our town become a model for innovation-driven environmental stewardship. By joining the Commission, I hope to bridge my professional experience with civic engagement, contributing to initiatives that reflect both my personal mission and Schneider Electric's commitment to sustainability, efficiency, and community impact.

Work Experience

I am a Digital Engineering Leader with over 17 years of experience in embedded firmware development and systems engineering. At Schneider Electric's Energy Management division, I lead initiatives that deliver smart, connected, and sustainable energy solutions. My work focuses on driving innovation through scalable design, cross-functional collaboration, and digital transformation. Throughout my career, I've contributed to the development of technologies that improve energy efficiency and support sustainability goals. I've also mentored emerging engineering talent and advocated for inclusive leadership in technical fields. My experience equips me with a systems-level perspective and a strong commitment to community impact—qualities I'm eager to bring to the Energy Advisory Commission to help guide our town's energy future.

Volunteer Experience

I have consistently taken on leadership roles in advancing diversity and equity within the engineering community. At Schneider Electric, I've actively contributed to employee resource groups focused on inclusion and belonging. Outside of work, I served on the board of the Society of Women Engineers (SWE) local chapter for three years, holding positions as Secretary and Vice President. During my tenure, I led a scholarship program that supports young women pursuing STEM careers—directly impacting future leaders in our field. These experiences reflect my commitment to inclusive leadership and community-driven impact, values I aim to bring to the Energy Advisory Commission.

Education

My educational background integrates advanced technical training with strategic leadership development. I hold a Master's degree in Electrical Engineering, which laid the foundation for my expertise in energy systems and embedded technologies. To expand my impact beyond engineering, I earned a business degree from the University of Michigan's Ross School of Business, equipping me with the tools to lead cross-functional initiatives and drive sustainable innovation. In addition to formal degrees, I hold a Certified Systems Engineering Professional (CSEP) credential from INCOSE, recognizing my depth of experience and commitment to systems thinking1. I also completed MIT's Architecture and Systems Engineering certificate program

Comments	
Himabindu Yamana Resume	11262024.pdf
Upload a Resume	
If you have another document you would like to attach to your application, you may upload it below:	
Please upload a file	
Demographics	
Date of Birth	
Gender *	
▽ Female	
Ethnicity *	
✓ Asian	
Other	
How did you become awar	e of Wake County volunteer opportunities?
Other	
If you selected "Other" ab	ove, how?
Please upload a file	

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

By submitting this electronic application, if appointed, I pledge by my signature below that I have read and will comply with the ethics guidelines for advisory boards and commissions as adopted by the Wake County Board of Commissioners, found here.

HIMABINDU YAMANA

Cell:1469-286-7160 | US Citizen | himabindu.yamana@gmail.com | Linkedin

Product Development Strategist with hands-on leadership experience executing and directing product design in all life cycle stages. Proven success creating and inspiring new product development transformation methods and implementing continuous improvement activities at an organizational level. Skillful in managing crossfunctional teams in multiple countries and leading fast-paced complex programs. Record of accomplishment adapting to new technologies and creating frameworks and processes that enhance business results. A positive leader with a passion for coaching, developing, and influencing matrixed teams to meet targeted goals and mitigating risk.

- New Product Introduction
- Cross functional &Global Leadership •
- Thought Leadership

- Team Building & Coaching
- Continuous improvement Change Agent
- System Thinker

- Planning to Flawless Execution
- Data Driven Decisions
- Customer Centric Metrics

CAREER EXPERIENCE

Digital Engineering Leader Schneider Electric, Raleigh, NC

Aug 2023 - Present

- Led the Vision and Mission for shaping **3** engineering sub-functions, encompassing End-to-End Firmware development, Systems Engineering Implementation, and System Verification and Validation.
- Doubled the team size from **15 to 35** successfully within a year, while establishing a robust talent pipeline for future expansion.
- Orchestrated the end-to-end integration of Firmware, Software, and cloud technologies to facilitate seamless digital transformation.
- Harnessed System Engineering processes to navigate complexity and drive tangible business outcomes.
- Spearheaded comprehensive V&V test planning and coverage, ensuring flawless execution of testing procedures.

Global Model Based Controls Design Leader, Electronics Whirlpool Corporation, St. Joseph, Michigan

Nov 2021 – Aug 2023

- Directed a global team spanning the US, Poland, Italy, Brazil, and India, comprising **40** Control Architects and SW Engineers, driving the delivery of advanced controls and machine learning capabilities for all Whirlpool appliances.
- Led cross-functional resource planning, forecasting resources to ensure the timely delivery of projects, alongside managing resources, budgets, and lab capital of up to **\$1.5M**.
- Pioneered innovation, strategic tech asset development, and integration of Electronic Controls using Model-based design techniques for Cross-Category products, contributing to the company's technological advancement.

V&V Strategist/Sr Manager, KitchenAid Small Appliances Whirlpool Corporation, St. Joseph, Michigan

Feb 2020 - Oct 2021

- Delivered robust Verification & Validation Test plans for up to **5** small appliance projects in the planning phase to meet stringent project schedule and budget constraints.
- Managed lab capital by developing roadmaps to new test procedures and fixture developments that meet consumer requirements criteria.
- Translated requirements and set targets by analyzing business, marketing, legal, and safety needs, and trade-offs are made via data-driven analysis to meet consumer needs.

 Liaison between Whirlpool and Global OEMs to V&V test plans meet consumer requirements with high quality.

Lead Architect- Engineering, Dishwashers

June 2017- Jan 2020

Whirlpool Corporation, St. Joseph, Michigan

- Demonstrated business impact by creating and pioneering Model-based Systems Engineering plan.
- Initiated and implemented organizational change by collaborating with **15** cross-functional stakeholders to develop 200+ well-written reusable requirements for new dishwasher architecture in Asia.
- Documented System Architecture using SysML that serves as a hub for engineering product development and trade-off discussions. Allowed digital traceability to reduce time-to-market for future launches.
- Created dashboards to measure key performance indicators of a project to communicate at various levels in the organization.
- Saved \$1M cost as a systems integrator collaborating with technical, manufacturing, and service functions to analyze the impact of design changes on all functions.

Systems & Diagnostics Lead, PowerSystems

Mar 2016 - June 2017

- Cummins, Inc., Columbus, Indiana
- Spearheaded Systems Engineering deployment activities for an engineering team of 10+ sub-systems and 700 engineers globally.
- Created a design review process and trained **10** cross-functional engineers on the process and technical details like diagnostic algorithms and tuning mechanisms to optimize tradeoff space.
- Supervised the diagnostic review process for **50+** diagnostics to ensure a **CPK > 1.5** on a strict deadline and consistently communicated metrics to the program managers.

Performance Integration Controls Lead

Mar 2014 - Dec 2015

Cummins, Inc., Columbus, Indiana

- Led a team of **5** to deliver After-treatment Performance Controls for multiple high horsepower (19L to 95L) engine platforms whose applications ranged from mining and hauling to locomotives.
- Liaison between 2 Business units--Emission Solutions and After-treatment Performance
 Controls--responsible for requirement creation, utilizing Monte-Carlo simulations, and integrating calibrated solutions per emission requirements for upto 4 Engine Platforms

Gap Analysis on After-treatment diagnostics: Chairman Award Winning for avoiding \$13M in cost.

—Prioritized the diagnostic list based on a 9-box (high frequency and high \$\$ impact) approach and designed a new resolution process to address the gaps. Revitalized Warranty accrual process for a business unit and communicated timely status updates to Executives and program directors.

Additional Relevant Experiences-

Sr. Power Electronics Controls Integration Engineer, Cummins Inc.,

May 2011 – Mar 2014

Systems Engineer, Cummins Inc., Columbus Indiana

Feb 2008 – May 2011

EDUCATION

• Master of Business Administration May 2022
University of Michigan, Michigan

Master of Science, Electronics Engineering

Dec 2007

The University of Texas at Arlington, Texas

Bachelor of Engineering, Electronics and Communications Engineering March 2005
 Jawaharlal Nehru Technological University, India

Profile				
Which Boards would you lik	ce to app	ly for?		
Energy Advisory Commission: Su	ubmitted			
Please select your first Boa	ırd prefer	ence: *		
	mmission			
Please select your second I	Board pre	eference: *		
Cary Planning and Zoning Bo	ard			
Please select your third Bo	ard prefe	rence: *		
	mission			
Please select your fourth B	oard pref	ference: *		
Please select your fifth Boa	ard prefe	rence: *		
None Selected ■				
Please select your sixth Bo	ard prefe	rence: *		
M	C'ana	Carrelia		
Mary First Name	Ginger Middle	Scoggins Last Name		
	Initial			
1151 SE Cary Parkway			Suite 200	
Street Address			Suite or Apt	
Cary			NC	27518
City			State	Postal Code
What district do you live in	?			
None Selected				
Mobile: (919) 818-4709 Primary Phone	Business: Alternate Phone	(919) 238-7152		
Timely Thore	, accinate riiolle			
gscoggins@engineereddesigns.c	com			
Email Address				
Engineered Designs, Inc.	President Job Title			
F - J =-	,			

Submit Date: Sep 04, 2025

If you live in an Extraterritorial Jurisdiction Area, select Yes:
○ Yes ⊙ No
In order to assure countywide representation, please indicate your place of residence:
☑ Cary
Interests & Experiences
Why are you interested in serving on a Board or Commission?
Approached by Sig Hutchinson. I'm a mechanical engineer with 30 years experience in sustainable building design.
Work Experience
Mechanical Engineer with 30 years experience in sustainable building design.
Volunteer Experience
Current Treasurer of ASHRAE (American Society of Heating, Refrig, Air-conditioning engineers) - Have volunteered for ASHRAE for 30 years. Past Board of Director for ArtSpac
Education
BSME - Tennessee Technological University
Comments
Resume Proposal Ginger General 2.pdf Upload a Resume
If you have another document you would like to attach to your application, you may upload it below:
Please upload a file
·
Demographics
Date of Birth
Gender *
▽ Female

Lemmercy
Other
How did you become aware of Wake County volunteer opportunities?
⊘ Other
If you selected "Other" above, how?
Phone Call
Please upload a file

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

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Ethnicity *



M. GINGER SCOGGINS, PE, CEM, LEED AP, CxA, FASHRAE Principal—Mechanical Engineer

As Principal of Engineered Designs, Inc., Ginger brings 30 years of experience in building systems design, commissioning, and project organization to the firm. She enjoys tackling complex technical projects with solutions that optimize system energy performance, are sustainable in nature, and are compatible with clients' financial, operational, and maintenance goals.

As a design engineer, Ginger's experience runs from the design of 500 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm. ft. interior unfit projects to the design of 200 cm.

As a design engineer, Ginger's experience runs from the design of 5,000 sq. ft. interior upfit projects to the design of 200,000 sq. ft. laboratory projects that include wet labs, dry labs, clean rooms, biosafety laboratories, and vivariums. She has provided design services for complicated projects with water-side systems that include air or water-cooled chilled water, geothermal, hot water, steam, condensate return systems, as well as primary/secondary and variable-primary pumping arrangements. On the air-side, she has designed buildings with passive and active chilled beams, displacement ventilation, radiant panels, water-source heat pumps, energy recovery, and 100% outside air capabilities.

As a 3rd party commissioning agent, Ginger works on behalf of her clients to ensure that the final operation of a building is within the design intent and that issues are resolved in terms of system performance and optimization. She has commissioned projects of varying size that utilize varying systems, and has worked for numerous owners that may lack the expertise to diagnose system problems and determine appropriate solutions. She has the ability to simplify that issues into verbiage that persons who don't understand HVAC systems can understand, and she can also work with all parties to facilitate resolutions to issues for the betterment of the system and the owner.

In addition to design and commissioning, Ms. Scoggins' responsibilities include the daily management of the firm, managing team workloads, and reviews of complex HVAC systems. She hold the ultimate responsibility to ensure that her company is operationally profitable and that clients are satisfied with the company performance such that repeat business is obtained.

Also, through her involvement in the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE), Ginger stays current with advances in technology, standards, and guidelines for improving and maintaining indoor environments. She has served on committees within ASHRAE since 1988 when she joined the Triangle Chapter in Raleigh, becoming the first female president of the chapter in the 1995-96 year, the first female Regional Vice-chair, and the first female Director & Regional Chair for the Region. Recently, Ginger completed a 2-year term as a National ASHRAE Society Vice-President and was named a Fellow of the organization.



EDUCATION

Tennessee Technological University Cookeville, TN Bachelor of Mechanical Engineering Minor in Mathematics & Computer Science

Meredith College - Raleigh, NC Post-Graduate work towards Masters of Business Administration

PROFESSIONAL REGISTRATION

Registered Professional Engineer in North Carolina, Georgia, Tennessee, Virginia, and South Carolina

LEED Accredited Professional

Certified Energy Manager

Commissioning Authority

PROFESSIONAL ACTIVITIES

FELLOW—ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers, Inc.) Active in local, regional, and national chapters

Profile					
Which Boards would you l	like to a	pply for?			
Energy Advisory Commission:	Submitted	d			
Please select your first Bo	oard pre	ference: *			
City of Raleigh Planning Co	mmission				
Please select your second	l Board _l	oreference: *			
✓ Durham and Wake Counties Committee	s Researc	h and Productic	on Service	District Ad	visory
Please select your third B	oard pre	eference: *			
✓ Keep America Beautiful Adv	isory Boa	ırd			
Please select your fourth	Board p	reference: *			
	ommissio	n			
Please select your fifth Bo	oard pre	ference: *			
	mmission				
Please select your sixth B	oard pro	eference: *			
	velopment	Board			
Shunda Sharice First Name	S Middle	Lloyd Last Name			
	Initial				
1133 Villa Green Ct Street Address				Suite or Apt	
Raleigh				NC	27612
City				State	Postal Code
What district do you live i	in?				
None Selected					
Home: (919) 244-2101 Primary Phone	Home: Alternate P	(919) 985-4555 hone	5		
sslloyd@proton.me					
Department of Natural and Cultural Resources Employer	Outrea Job Title	ch Coordinator			

Submit Date: Aug 19, 2025

if you live in an Extraterritorial Jurisdiction Area, select fes:
○ Yes ⊙ No
In order to assure countywide representation, please indicate your place of residence:
☑ Raleigh
Interests & Experiences
Why are you interested in serving on a Board or Commission?
I have been a part of the Energy Literacy Fellowship since 2022 through UNC Chapel Hill which has allowed me to see the trajectory of how energy is going to be a commodity that will be a change with maintaining equity for the residents of Wake County and beyond. I am an educator that focuses on STEM education for K-12 youth and I teach AI technology to Duke Pre-College students which is why I want to be a part of the process to ensure we are balancing technological advances with the natural resources that are being used with limited accountability.
Work Experience
Educator with the WCPSS, Duke Pre-College, early childhood development centers, tutoring of elementary students, and currently the Outreach Coordinator for the DNCR and NC Historic Sites.
Volunteer Experience
The Department of Corrections (Central Prison spiritual care volunteer)
Education
UNC Chapel Hill - Master of Art in Teaching Johnson C. Smith University- Bachelor's in Science (Biology) Duke Divinity School with a concentration in Theology, Medicine, and Culture Western Piedmont Community College- Business Planning and Development
Comments
Sharice_L_2025_resumepdf Upload a Resume
Pastel Green Coral Blobs Wellness Coach Bio Instagram Post.pdf If you have another document you would like to attach to your application, you may upload it below:
Please upload a file
Demographics

Date of Birth		
	ala.	
Gender	^ *	
▽ Fema	ale	
Ethnicit	ty *	
Africa	an American	
✓ Nativ	re American	
Other		
How die	d you become aware of	Wake County volunteer opportunities?
⊘ Coun	ty Website	
If you s	selected "Other" above,	how?
Please upload	d a file	

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

By submitting this electronic application, if appointed, I pledge by my signature below that I have read and will comply with the ethics guidelines for advisory boards and commissions as adopted by the Wake County Board of Commissioners, found here.

S. SHARICE LLOYD

Raleigh, NC | Phone: 919-985-4555 | sslloyd@proton.me | LinkedIn | @MsLloydSTEM

Objective: To share my wealth of knowledge in STEM education to scholars in higher education.

With over 10 years of experience in STEM education, curriculum development, and project-based learning, I excel in creating engaging, culturally responsive instructional materials. A lifelong learner, I incorporate sustainable development, innovative technology, and equity-focused approaches in my instruction and have provided extensive peer support in the classroom and with professional development.

CAREER HIGHLIGHTS

- Extensive experience in analyzing, updating, and refining existing **instructional content** to ensure relevance and effectiveness using platforms such as Canvas, Canva, Adobe, and Magic School AI.
- Develop instructional support materials, such as **instructor's manuals**, rubrics, and teaching tools.
- Create modules, storyboards, and template designs for courses such as AI and Law at Duke Pre-College.
- Over 10 years of classroom experience with a strong commitment to professional development and staying at the forefront of STEM education.
- WCPSS Equity Cohort participant for the 2023-24 school year
- AVID secondary teacher site co-coordinator for 2023
- Board of Elections **Computer Worker** for the Primaries and Early Elections for Wake County
- Teacher of the Month (December 2023)
- Top Flight Educator (March 2024)
- Former Biotech/biomedical researcher in areas of toxicogenomics and cancer at various RTP institutes such as the EPA which required the implementation of proper use of government guidelines, SOPs, and other written materials that aligned with research integrity.
- Serve on the teacher committee as part of the Energy Literacy Fellow (ELF) program
- Partnered with local and international partners to design hygiene kits for middle school girls in Uganda
- Energy Literacy Fellow and Teacher Advisory Committee member through the UNC Institute for the Environment to learn current clean energy trends and how it will impact financial growth in the state of North Carolina
- Marble Museum Educator Advisory Council member to help develop and evaluate educational programs/exhibits.

CORE COMPETENCIES

AI Tools Teaching & Training | Data-Driven Decision Making | Strategic Communications | Project Management | Social Emotional Development | Curriculum Development | Teamwork & Collaboration | Restorative Circle Interventions

TEACHING EXPERIENCE

Duke Pre-CollegeJune-present

A.I. Law and Technology /Smart Cities/ Mars Colonization Instructor for 6-11 graders

- Designed learning objects including but not limited to eLearning modules, PowerPoints, course assignments, and assessments to be used on the Canvas LMS platform
- Incorporate the Sustainable Development Goals set by the United Nations into instruction, fostering global awareness and promoting student-led action on issues such as environmental sustainability and social justice.
- Collaborated with the City of Durham's technology department for students to understand digital inclusion and its significance in Smart Cities
- Organized and facilitated Zoom visits with local leaders from nonprofit organizations such as Pink STEAM that focused on leveraging technology for community engagement and development
- Ensured students received formal training and guidance from Duke librarians on finding credible resources to use to research ways to make a sustainable Smart City
- Planned hands-on sessions and field trips to places such as Nasher Museum
- Guided students in developing critical thinking and research methodologies
- Tools and methods for assessing individual carbon footprints

Chapel Hill-Carrboro City Schools

August 2024 -present

Substitute Teacher (various subjects)

- An adaptable and dedicated Substitute Teacher with experience across multiple schools within the district.
- Ensures the continuity of student learning by effectively implementing lesson plans and maintaining classroom order.
- Responsibilities included: Lesson implementation and constant communication with the primary teacher to ensure students are completing their assignments and staying on track.
- Student Supervision: Perform lunch duty and supervise students during non-classroom activities, ensuring a safe and organized environment.
- Behavior Management: Collaborated with staff to redirect and manage student behavior, maintaining a positive and productive classroom atmosphere.
- Effective interaction with teachers, students, and administration to ensure student growth and development.

Wake County Public School System

2021 - 2024

Science Educator and Science Olympiad Coach

 Design and implement an engaging and culturally responsive science curriculum aligned with the North Carolina Standard Course of Study (NCSCOS) based on the Science and Engineering Practices (SEP) standards.

- Incorporate the Sustainable Development Goals set by the United Nations into instruction, fostering global awareness and promoting student-led action on issues such as environmental sustainability and social justice.
- Serve as co-coach of the Science Olympiad team, guiding students in preparing for competitions and fostering collaboration, critical thinking, and problem-solving skills.
- Facilitate inquiry-based learning experiences in areas including plants and ecosystems, forces and motion, chemistry, and space, utilizing hands-on experiments, technology integration, and real-world applications.
- Actively participate in the Wake County Public School System (WCPSS) Equity Cohort, collaborating with colleagues to address issues of equity, diversity, and inclusion within the school community.
- Serve as advisor for the AVID (Advancement Via Individual Determination) cohort, providing academic support, college readiness resources, and mentorship to students from diverse backgrounds.
- Implement project-based learning (PBL) initiatives that empower students to investigate real-world problems, develop solutions, and become responsible stewards of the environment.
- Achieve a student proficiency rate of 90% in the curriculum taught, demonstrating effectiveness in instructional delivery and student learning outcomes
- Awareness of strategies outlined in students' PBSPs, IEPs, BIPs, and 504 plans to implement appropriate interventions during crises to de-escalate behavior and provide support.

Primrose Schools 2012 – 2016

Co-Teacher, Primrose of Hilburn

- Supervised and engaged children in various indoor and outdoor activities to promote socialization, creativity, and physical fitness.
- Established positive rapport with staff members, children, and families, ensuring a supportive and trusting relationship.
- Maintained a clean and organized childcare environment, including sanitizing toys, preparing meals, and tidying play areas.
- Implemented age-appropriate educational and enrichment activities to support children's developmental milestones and interests.
- Communicated regularly with parents regarding their child's progress, behavior, and daily activities.

Moore County Schools

2010 - 2011

Middle School Science Teacher

• Develop and deliver dynamic lesson plans and instructional materials aligned with the NCSCOS, covering topics such as weather, the human body system, chemistry, cells, and physics.

- Utilize a variety of teaching strategies, including hands-on experiments, technology integration, and cooperative learning activities, to engage students and enhance understanding.
- Differentiate instruction to accommodate diverse learning styles and abilities within the classroom, ensuring all students have access to meaningful learning experiences.
- Implement formative and summative assessments to monitor student progress and inform instructional decisions, providing timely feedback to support growth.
- Foster a positive and inclusive classroom environment that promotes respect, collaboration, and a love for learning.
- Actively participate in school-wide initiatives, including the beautification of the school campus, to enhance the learning environment and promote pride in the school community.

Carter G. Woodson School of Challenge

2009 - 2010

Middle School 7-8 Grade Science Teacher

- Utilize inquiry-based instruction, hands-on experiments, and real-world applications to foster critical thinking skills and scientific literacy among students.
- Create a supportive and inclusive classroom environment where students feel valued, respected, and motivated to learn.
- Developed and implemented the first Carter G. Woodson Recycling Program "Feed the Bin".
- Collaborate with colleagues, administrators, and community partners to develop and implement initiatives to promote student success and address the needs of the school community.
- Organize and facilitate field trips and educational experiences, including visits to events led by NC State Science House, to expose female students to STEM careers and opportunities.
- Co-taught the summer reading acceleration program to enhance students' reading comprehension and vocabulary skills, providing targeted instruction and support.

The University of North Carolina at Chapel Hill

2008 - 2009

Student-Teacher at East Chapel Hill High- Chapel Hill, NC

- Collaborated with a mentor teacher to plan and implement an engaging and rigorous Biology curriculum aligned with state standards and AVID program objectives.
- Designed and delivered dynamic lessons incorporating hands-on activities, inquiry-based learning, and technology integration to enhance student understanding and engagement.
- Provided differentiated instruction to meet the diverse learning needs of students, including English Language Learners and students with special accommodations.
- Advised and mentored first-generation college-bound students as part of the AVID program, offering academic support, guidance on college applications, and resources for post-secondary education.
- Facilitated classroom discussions, group projects, and cooperative learning activities to promote critical thinking, collaboration, and communication skills among students.

ADDITIONAL EXPERIENCE

Duke Divinity School. 2016 – 2019

Project Coordinator/Chaplain Intern

- Coordinate and oversee educational programs, including Bible studies, physical education, and health education initiatives, for individuals ranging from 6 to 18 years old, graduate school adults, and ministry employees.
- Develop and implement curriculum plans tailored to the specific needs and interests of diverse learner populations.
- Facilitate engaging and interactive learning experiences to promote spiritual growth, physical wellness, and overall well-being.
- Collaborate with community partners to expand program reach and enhance resources available to participants.
- Manage program budgets, logistics, and volunteer recruitment to ensure smooth operation and successful outcomes.
- Conduct regular assessments and evaluations to measure program effectiveness and identify areas for improvement.

EDUCATION

Duke Divinity School

Master of Divinity | 2019 Certificate in Theology, Medicine, and Culture

The University of North Carolina at Chapel Hill

Master's Degree, Secondary Science Education | 2009

Johnson C. Smith University

Bachelor of Science, Biology | 2003

TECHNICAL SKILLS

Microsoft Office 365 | Canvas | Schoolnet | Google Workspace | Magic School | Curipod | Formative AI Adobe | Canva | Genially | EVAAS (Education Value-Added Assessment System)

S.T.E.M. Educator

Ms. Lloyd, MAT, M.Div., is an educator dedicated to serving others in STEM education, industries, and community outreach. Currently serving as a Science Educator within the CHCCS and formerly the Wake County Public School System (WCPSS), Ms. Lloyd brings her passion for science and education to inspire young minds. As a co-coach for the Science Olympiad- she fosters a love for science and encourages students to explore the wonders of the natural world and beyond!

Graduating from Duke Divinity School with a Master of Divinity degree and a certificate in Theology, Medicine, and Culture, she has embraced her calling to provide spiritual and medical care to those in need in healthcare, with an awareness of cultural differences. During the COVID-19 pandemic, she served as a Chaplain Resident at Cone Health, offering compassionate presence and ministry to individuals facing emotional, mental, and physical distress.

Ms. Lloyd has engaged in both local and international outreach efforts. From leading projects addressing the impact of gentrification on the homeless population in Durham, NC to empowering women and adolescent girls through initiatives like the Bethany Miracle Pad Project in Uganda, Africa, she exemplifies a commitment to social justice and empowerment.

Before her theological studies, Ms. Lloyd honed her skills as an educator, teaching middle and Pre-K students in various North Carolina communities. Armed with a Bachelor of Science degree in Biology from Johnson C. Smith University and a Master of Arts in Teaching degree from the University of North Carolina at Chapel Hill, she combines her passion for science with her dedication to education. She continues to find ways to ensure that students use technology as a tool, not a toy, as she teaches AI Law and Technology and Smart Cities to Duke Pre-College students.

In all her endeavors, Sharice Lloyd embodies a holistic approach to service, blending her expertise in education, medicine, and advocation make a positive impact in the lives of others.



Submit Date: Jul 12, 2025

If you live in an Extraterritorial Jurisdiction Area, select Yes:

○ Yes ⊙ No

In order to assure countywide representation, please indicate your place of residence:

₩ Wake Forest

Interests & Experiences

Why are you interested in serving on a Board or Commission?

Volunteering on the Citizens' Energy Advisory Commission is a natural extension of both my professional background and personal values. I work in renewable energy full-time, so I bring direct, hands-on experience in the industry. But beyond that, I care deeply about environmental impact, community engagement, and doing my part to give back. This role brings all of that together in a meaningful way, and that's the core reason behind my application.

Work Experience

I'm a Project Manager in renewable energy with over 5 years of experience delivering more than 300 MW of solar projects. My work spans early development through construction—including interconnection, permitting, engineering, and execution. I regularly coordinate with project developers, landowners, local authorities, and permitting agencies to move projects forward efficiently and responsibly. My role centers on aligning technical, regulatory, and community interests to deliver clean energy with long-term impact.

Volunteer Experience

While I don't have formal volunteer experience in the U.S., I've been actively involved in community-focused efforts throughout my academic and early professional life. UET Blood Donor Society – Recruited and organized blood donors on-campus for emergency needs No Smoking Campaign, UET – Launched a campus-wide awareness campaign using student media and peer engagement Noor Community Medical Camp – Volunteered at a free rural health camp, supporting logistics for medical and eye care services Rural Education Drives – Conducted awareness campaigns in underserved areas to encourage school enrollment and promote the value of education

Education

Master of Science in Mechanical Engineering, Oregon State University (2023) Bachelor of Science in Mechanical Engineering, University of Engineering and Technology, Lahore - Pakistan (2016) Project Management Professional (PMP) Certification (2025) Focus areas: energy systems, project management, and sustainable infrastructure

Comments

Wake County's commitment to 100% clean energy and carbon neutrality by 2050 strongly aligns with both my professional work in renewable energy and personal values around sustainability and community impact. I'm confident I can add meaningful, technically informed insight to the Energy Advisory Commission given my strong professional experience. I am excited to support its clean energy transition with both expertise and accountability.

Muawia Resume - JB -	
April 2025.pdf	
Upload a Resume	
If you have another document you would like to	
attach to your application, you may upload it	
below:	
Please upload a file	
Demographics	
Date of Birth	
Gender *	
✓ Male	
Ethnicity *	
✓ Asian	
Other	
Have did way became away	es of Wales Country valuations and administration?
How did you become awar	e of Wake County volunteer opportunities?
If you selected "Other" abo	ove, how?
Please unlead a file	

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

By submitting this electronic application, if appointed, I pledge by my signature below that I have read and will comply with the ethics guidelines for advisory boards and commissions as adopted by the Wake County Board of Commissioners, found here.

Muawia Hassan, PMP®

Georgia, USA • <u>hassanmuawia18@gmail.com</u> • <u>linkedin.com/in/muawiahassan/</u> • 541-668-5663

KEY POSITIONS

PMP® Certified Project Engineer, Preconstruction Engineer, Solar Project Developer, Energy Engineer

EXPERIENCE

Fall Line Construction, LLC

October 2024 – Present

Preconstruction Engineer

Butler, Georgia (Remote)

- PV Design & Optimization: Develop energy generation models using PVSyst, PVCase and other industry-standard tools to enhance performance of renewable power systems during the preconstruction phase. Tailor designs to achieve optimal AC & DC capacity and cost-efficiency.
- Proposal Development: Review Requests for Proposals (RFPs) for utility-scale PV projects, crafting comprehensive solar array scopes. Assess equipment specifications, contractual requirements, and performance criteria to deliver customized, high-efficiency designs.
- *Technical Evaluation*: Conduct thorough feasibility analyses based on design requirements, technical limitations, and economic considerations. Ensure optimal design solutions are achieved within scope and budget constraints.

Hypower, LLC

April 2023 – October 2024

Preconstruction Engineer / Project Engineer

Fort Lauderdale, Florida (Remote)

- PV Design: Create generation models in industry-standard software programs ex. PVSyst. Apply engineering principles to design, modify, or develop renewable power facilities, during preconstruction phase. Optimize project performance based on AC & DC capacity and cost parameters.
- Proposals: Analyze Requests for Proposals (RFPs) for utility-scale photovoltaic projects and develop the solar array scope for the basis of the proposal. Evaluate contractual obligations for PV project performance. Analyze product and/or equipment specifications and performance requirements to determine optimal designs.
- Project Engineering and Management: Review and analyze applicable engineering components, such as civil, structural, electrical or controls, of renewable energy projects as they relate and/or impact project performance. Determine feasibility of designs considering costs, time limitations, planning, and other technical and economic factors. Travel to project sites for data collection and during project commissioning.

Water and Energy Technologies Laboratory, Oregon State University

September 2021 – April 2023

Graduate Research Assistant

Corvallis, Oregon

- Research: Worked on solar thermal desalination technologies patented by the lab to treat hydraulic fracturing and seawater to hyper-saline wastewater to recycle water for irrigation and domestic usage with cost effectiveness.
- Design Development: Focused on design development of a heat exchanger for desalination module for heat recuperation and thermal management of the cycle. Worked published as a research paper.
 This research work was a part of research sponsored by United States Department of Energy Solar Energy Technologies Office (award number DE-EE0008402) and the US Department of Energy Advanced Research Projects Agency Energy (award number AR-0001000).

Reon Energy Ltd.

September 2020 – September 2021

Project Developer / PV Structure Engineer

Lahore, Pakistan

- Project Development: Collaborated and liaison with contractors and project managers to ensure the site-specific
 design and delivery with cost effective solutions. Site survey of critical sites for customized structural requirements
 and debottlenecking any onsite structural query. Getting design and as built approvals from clients and regulators.
- Team Management: Coordinated with team and draftsmen to produce structural drawings as per standard documentation protocols. Provided technical advice on project feasibility and obtaining critical approvals from clients and regulatory authorities. International and local vendor management on behalf of supply chai manager.
- Mechanical Design: Designed module mounting structures for roof and ground mounted systems along safety testing of structure on various sites based on standards for loads (ASCE 7-16, MBMA 2006) caused by environmental or human influence and construction safety guidelines.

EXPERIENCE

- Quality Inspection: Evaluated the fabricated structure for module mountings and completed welding, galvanizing, and dimensional inspection to maintain quality and safety. Monitoring and inspecting all structural work undertaken by contractors on company behalf to ensure structural soundness and quality.
 - 70 MW Ground Mount Solar System at Bestway Cement Ltd. Budget \$36.5 million
 - 9 MW Solar System at Unilever Pakistan Ltd. Budget \$4.5 million
 - 3.1 MW Solar System at British American Tobacco, Pakistan. Budget \$2 millions
 - 4MW Solar system for QEERI project, REDCO, Qatar

Hadron Solar Pvt. Ltd.

May 2019 – September 2020

PV Design Engineer & Project Engineer

Lahore, Pakistan

- *Photovoltaic Design*: Designed solar systems and its components, BESS on PV*Sol and PVsyst solar simulation software with different electrical sizing, orientation, and module types for residential systems across Pakistan.
- Energy Economics: Performed calculations on software programs to generate system quotations, energy production
 and utilization reports, energy export to grid, payback time, BOQ analysis and carbon savings.
- Project Engineering: Led a team of 4 engineers and 10 technicians for smooth delivery of projects.
 - 330 kW Rooftop Solar System at British American (Pakistan) Tobacco Co. Pakistan. Budget \$0.3 million
 - 130 kW Agricultural Solar System at Water Management Training Institute, Punjab. Budget \$0.5 million
 - 5 MW Solar system at MS Enterprises, Lahore, Pakistan. Budget \$2.8 million
 - 10+ MW residential Solar Systems installed across Pakistan.

ILF Pakistan Private Limited

March 2017 – May 2019

Assistant Mechanical Engineer

Lahore, Pakistan

- Project Planning: Supported senior engineers in project plan and design using MS Project in mega projects,
 100MWp Quaid-e-Azam Solar, 48MW Jagran II Hydro, LNG terminal and 18MW Harrapa Solar.
- Business Development: Prepared project-winning technical proposals and bids for energy projects, Solar powered tube wells under Fisheries dept with Govt. of Punjab, Quaid-e-Azal Solar extension, Walton Solar powered lights
- Data Collection: Visited project sites to gather information about the project feasibility and related technical parameters for preparation of project letter of interest (Sites: Batakundi, Usho, Sahiwal, Bhawalpur, Kashmir)
- *Documentation:* Reviewed and logged operation and maintenance reports from solar projects. Prepared business development reports on all projects. Prepared letters and expression of interest documents on behalf of manager.

EDUCATION

Oregon State University

March 2023

Master of Science in Mechanical Engineering with focus in Renewable Energy

Corvallis, Oregon

Thermo-fluid sciences, Renewable energy, Contemporary energy applications, International & US energy policy Project: Heat exchanger design for a solar thermal desalination module to complete a zero liquid discharge cycle. Published work: Anti-fouling rotating polymer-based heat exchanger for zero liquid discharge humidification-dehumidification desalination, https://doi.org/10.1016/j.watres.2024.121749

University of Engineering and Technology, Lahore

Bachelor of Science in Mechanical Engineering

August 2016

Lahore, Pakistan

Thermo-fluid sciences, Power plants, Energy resources & utilization, Environmental engineering Project: Energy economics and applications of a *kalina cycle*-based waste heat recovery plant.

JOB RELATED SKILLS

- excellent leadership and team management skills: leading a team of 4 engineers and 10 technicians.
- good decision-making skills: responsible for effective group decision making and implementation on site.
- good command of HSE processes: Safety Passport holder, responsible for site safety procedures.
- time management skills: creating project timelines and meeting deadlines, follow-ups, implementing strategy.
- conflict resolution skills: keeping personal and professional relationships strong, stress management, emotional awareness, non-defensive, and respectful reactions to move past the conflict.
- good communication skills gained through my experience as Project Coordinator at Hadron Solar, bridging the gap between design and implementation team as well as coordinating with the client and vendors.

Professional memberships:

- Association of Energy Engineers Young Energy Professional Member since 2024.
- Pakistan Engineering Council registered engineer lifetime members since 2016
- Institute of Engineers, Pakistan member since 2019
- Pakistan Engineering Congress member since 2019

PROFICIENCIES

- Solar PV Software: PV-Sol, PVsyst, Helioscope, SketchUp, AutoCAD 3D
- Design Software: SolidEdge, SolidWorks, ANSYS, SAP2000, Fluent
- Project Management and Documentation: MS Project, MS Word and others, LaTex
- Languages: English fluent, Urdu/Hindi native, Persian/Arabic basic

HONORS AND AWARDS

- Received a funded Research Assistant position at WET lab, Oregon State University (2021)
- Got selected for 2nd round interview for Fulbright scholarship from United State Education Foundation (2019)
- Received a GRE fee waiver from United State Education Foundation in Pakistan for good score (2018)
- Nominated for best 'Final Year Project' by department of Mechanical Engineering (2016)
- Received merit-based laptop award worth PKR 50,000 from Chief Minister Punjab (2013)
- Granted a merit-based scholarship by National Outreach Program for admission in LUMS on merit (2011)
- Secured a merit-based scholarship from ILM College for outstanding performance in 11th and 12th grade (2010)
- Won English essay writing competition at Division, District and Tehsil level with worth PKR 30,000 prize (2009)
- Awarded a merit-based scholarship by PEEF for getting 94% marks in Matriculation worth PKR 72,000 (2009)

ADDITIONAL

Extra-curricular activities:

- Amal academy, an education start-up funded out of Stanford University: Completed a competitive written application and interview process to be selected from over 1500 applicants for intensive 3-month Fellowship funded by Stanford University. Invested 150 hours to develop business and professional skills (e.g., communication, leadership, problem solving, teamwork, etc.) that help make a deeper impact in profession.
- University of Engineering and Technology Media Society: Organized a "Youth, Leadership Media Symposium" attended by over 2,000 students from universities across Lahore. Founded a social media page "Humans of UET" which now has over 18,000 likes, interviewing students on campus.
- University of Engineering and Technology Science Society: Lead a team of 10 members as Director Logistics for the 2015-2016. Coordinated "Summit of Nation's Youth, Engineers and Scientists" attended by over 3,000 students from universities across the country.

Standard exams and scores:

- GRE General: 323 (166 Quantitative, 157 Verbal, 3.5 Analytical Writing Assessment) valid through April 2023.
- TOEFL iBT: 107/120 (Reading 28, Listening 28, Speaking 26, Writing 25) expired August 2020.
- Duolingo English Test: 130/160 (Literacy 130, Conversation 130, Comprehension 140, Production 115)

Volunteer work:

- Volunteer enlisting of blood donors on-campus for UET Blood Donor Society.
- Launched "No Smoking Campaign" in UET campus using media society platform and campus walks.
- Volunteered at free medical and eye operation camp at Noor Community in my village.
- Education awareness drives in rural areas and communities to increase enrollment in local schools.

Hobbies and interests:

- Climate change, renewable energy especially solar PV research and development, geopolitics, and world affairs
- book reading (fiction, spiritual, self-help), photography, traveling, hiking, camping, fishing, DIY crafts etc.
- team sports like cricket, football, tennis, and adventure-sports etc.

Inspirations:

Greta Thunberg (climate activist), Malala (youth activists), Abdul Sattar Edhi (philanthropist), Imran Khan (Face of change), Kamran on Bike (Cycling across the world), Shahid Khan (Pak-US businessman and engineer), Thomas Edison (America's greatest inventor)

References: contact information to be provided on request

- Syed Saqib, Assistant Professor, Department of Mechanical Engineering, UET Lahore, Pakistan.
- Wagas Haroon Moosa, CEO and Director Marketing, Hadron Solar Pvt. Ltd. Lahore, Pakistan.
- Dr. Bahman Abbasi, Assistant Professor, Oregon State University.