

# Zia Ullah

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## Address

P/O Pathanwali City Wazirabad  
Gujranwala, Punjab  
Pakistan

<b>Objective</b>	Research driven and highly organized Electrical Engineer seeking a challenging Internship utilizing the hardware designing, programming and solving complex engineering problems skills to design, develop and implement innovative solutions. To advance my career in a dynamic environment that values teamwork and professional growth. Dedicated, responsible and eager to work in a reputed organization which will help me deliver the best and upgrade my skills in engineering and meet the demands of the organization.	
<b>Education</b>	<b>Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)</b>  Bachelors of Science in Electrical Engineering(Electronics) CGPA: 2.61/4.00	Topi, PK September 2020 - Present
	<b>Punjab Group of Colleges</b>  Intermediate, Pre-Engineering Result: 91.09%	Wazirabad, PK August 2018 - May 2020
<b>Work Experience</b>	<b>American Institute of Aeronautics and Astronautics(AIAA), GIKI Chapter- Head Sponsorship/Liaison</b>  -Conduct the sponsorship sessions for the team having more than 15 members. -Led the sponsorship team for Design, Build and Fly Competition (DBFC) 2022. -Executed the liaison sessions and directed the liaison for DBFC 2022 and for International Leadership Summit (ILS) 2023.	Topi, PK September 2021 - Present
	<b>American Society of Heating, Refrigerating, Air-Conditioning Engineers(ASHRAE), GIKI Chapter- Head Outreach</b>  -Arranged and Executed Thermocon 2023 with more than 120 participants from all over the country. -Operated an Auto show having more than 100 participants from different cities across the country.	Topi, PK November 2020 - Present
	<b>Society of Photo-Optical Instrumentation Engineers(SPIE), GIKI Chapter- Volunteer</b>  -Served as a Volunteer; being a part of sponsorship and tech team.	Topi, PK November 2020 - March 2021
<b>Academic Projects</b>	<b>Designed and Manufactured a step down 120 VA Transformer</b>  -Drafted a step down 120VA shell type transformer with accuracy, after performing calculations and analysis, using steel material as a core. <b>Development of Li-Fi Transceiver System using Laptop and Mobile Phones</b>  -Formulated and developed algorithms, displayed encoded message using laptop screens. -Exported raw data from cell phones, analyzed the system under testing conditions. -Successful transmission of data with bit error rate (BER) less than 8%. <b>Line Follower Robo using PIC Microcontroller</b>  -Build a 4-wheel line follower robot using PIC18F4550 and advanced algorithms, having eight IR sensors on front side, capable of detecting line and obstacles. <b>Electric Grass Trimmer (Rechargeable)</b>  -BLDC motor controlled by an ESC, powered by Lithium ion Battery pack. -ESC control speed depending on switching and modification of MOSFETs depending on duty cycle provided by Arduino Uno. -PWM from Arduino Uno is controlled manually by a 10K resistor.	
<b>Awards &amp; Achievements</b>	- Won AIAA's best member award of the Year 2022. - 1st position in all semester projects throughout the degree. - City topper in board exams FSC Part-I 2019. - Won all City Science Competition 2018.	
<b>Skills</b>	- Software skills: Proteus, LT-spice, Creo, Multisim, PCB design, Simulink, MPlab. - Programming languages: Embedded C, C++, Python, Arduino, MATLAB. - Interpersonal skills: Leadership, team work, project management, collaboration. - Proficient in English and Urdu languages.	