Hassaan Ahmad Siddiqui

hassaanahmadsiddiqui@gmail.com
+92 (308) 5454967

Address
Ahmed Housing Scheme
Lahore, Punjab
Pakistan

Objective	Research-oriented and competent electrical engineering student seeking an internship opportunity to grow engineering and managerial abilities, gain hands-on experience, and get familiarized with the organizational structure and work culture. Skilled in system design, analysis, and control with a proven record of excellence in managing projects from concept to completion.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)

Topi, PK
September, 2020 - Present

Bachelors of Science in Electrical Engineering(Electronics)
CGPA: 3.84/4.00

Work Experience

Head Automation - Team Foxtrot

GIKI
January, 2022 - Present

-Directed a team of 15 to select electronic equipment for the UAV for the 2023 SUAS competition and automate the drone with advanced flight controllers, including PX4 and CUAV X7+
-Conducted 10+ educational workshops on flight planning and advanced safety techniques to upskill junior members
-Guided the team members in installing electronic equipment on foam board planes
-Integrated Nvidia Jetson with the flight controller for object detection, enabling the delivery of five payloads
-Incorporated six LIDARs with the flight controller for obstacle avoidance

Head Documentation - Team Foxtrot

GIKI
January, 2022 - Present

-Managed a team of 6 to produce technical reports and reviews for the IMechE UAS competition 2022, documenting all progress and technical details
-Trained junior team members to write approximately 20 technical blogs for the team website
-Communicated and coordinated with the corporate sector for to attract sponsors and technical partners

Technical Support - DroneTec

Islamabad, PK
January, 2022 - Present

-Co-founder of DroneTec, a startup founded by a team of undergraduate and graduate engineers
-Provided services in three applications: drone surveillance, aerial photography, and agricultural spraying
-Showcased DroneTec's expertise as a representative at Future Fest Islamabad 2022 and boosted reach and visibility on LinkedIn by 30%

Academic Projects

Light-Fidelity (LiFi) System

-Developed a unidirectional light-fidelity transmission system, analyzed the working of the system, and minimized the bit error rate (BER) to less than 10 percent

Transformer Design

-Designed and fabricated an optimized 280 volt-ampere shell-type transformer following meticulous calculations and analysis

Function Generator Circuit

-Built a circuit that generated three unique wave-forms using operational amplifiers in different configurations
-Devised a control network to modulate the signal's frequency and amplitude

Microcontroller Development Board Design

-Created a PIC-18f4550 development board by establishing a USB communication to burn a boot-loader on the microcontroller, allowing users to program the microcontroller using that boot-loader and a configured USB port

Heart Beat Sensor

-Integrated heartbeat sensor with PIC-18f4550 and programmed the controller to process the sensor data and display the heartbeat on OLED

Awards & Achievements

- Consecutive Dean's Honor List (DHL) in all previous semesters
- Highest scores in all Complex Engineering Problems throughout the degree
- 1st position in Asia and 6th worldwide in IMechE UAS competition 2022 for Team Foxtrot
- Business Proposition Award 2022 for Team Foxtrot for consecutive two years

Skills

- Technical Softwares: Proteus, Multisim, MATLAB, Altium Design, CREO
- Programming Languages: C++, Python, Embedded C, PIC Assembly Language
- Graphics Softwares: Adobe Illustrator, Adobe Photoshop, Figma, Adobe Premier Pro
- Artistic Skills: Face Sketching, Acrylic Painting, Wall Painting