HAMMAD SABOOR

Electrical Engineer

00923037921472 hammadsaboor02@gmail.com
https://www.linkedin.com/in/web-developer-designer/ Islamabad

SUMMARY

To work in a professional, work-driven environment where I can utilize and apply my knowledge and skills to grow while fulfilling organizational goals. I have a strong understanding of wireless communication system design and Cadence Virtuoso theory, as well as hands-on experience designing and simulating RF components. I also have a solid foundation in the basics of analog and digital circuit design for microwave and RF design using tools such as ADS, HFSS, and CST. My work experience has helped me develop my MATLAB skills and instilled in me a sense of responsibility towards my job. I am eager to take on challenging opportunities.

EXPERIENCE

Project & Design Engineer Intern

BCube Pvt Ltd

07/2023 - 09/2023 Islamabad, Islāmābād, Pakistan

Hardware Designing & Production

- Filter Designing on ADS & HFSS
- Testing of Hardware components. i.e Phase Shifter, Daughter Board etc.
- Virtual Network Analyzer
- PCB designing

EDUCATION

Bachelor of Engineering - BE, Electrical and Electronics Engineering

National University of Sciences and Technology (NUST)

01/2020 - 12/2024

SKILLS

Advance Design Software | HFSS | Filter Designing | MATLAB | CST | Proteus | microwave designing | RF designing | Circuit Designing | Frequency calibrators and simulators | Oscilloscopes Testing | Scanning probe microscopes | Signal generators | Voltage or current meters | Innovation | Analytical Skills | Creativity | Communication | Problem Solving

PROJECTS

Filter Design

Date period Location

Designed and implemented a filter to meet specific frequency response criteria. Used simulation tools to optimize the filter's performance and tested its performance using real-world signals.

- The successful outcome of this project was a well-designed and functional filter that met the desired performance criteria.

Receiver and Transmitter in MATLAB

Date period Location

Developed a receiver and transmitter system in MATLAB to transmit and receive signals over a communication channel. Used simulation tools to test the system's performance and made adjustments to optimize its performance.

- Functional receiver and transmitter system that met the desired performance criteria.

DTMF Coder and Decoder

Date period Location

Designed and implemented a DTMF (Dual-Tone Multi-Frequency) coder and decoder system to encode and decode telephone signals. Used simulation tools to test the system's performance and made adjustments to optimize its performance.

- Functional DTMF coder and decoder system that met the desired performance criteria.

Analog and Digital Multimeter Design

Date period Location

Designed and implemented an analog and digital multimeter to measure various electrical quantities. Used simulation tools to optimize the multimeter's performance and tested its performance using real-world signals.

- well-designed and functional analog and digital multimeter

RLC, RC, and CR Filter Design

Date period Location

Designed and implemented RLC, RC, and CR filters to meet specific frequency response criteria. Used simulation tools to optimize the filters' performance and tested their performance using real-world signals.

- well-designed and functional RLC, RC, and CR filters

INTERESTS & HOBBIES

Reading

Sports

Music

Travel

COURSES & CERTIFICATES

Master of Science in Electrical Engineering by the University of Colorado, Boulder via Coursera

Master of Science in Electrical Engineering by the University of Colorado, Boulder via Coursera