

Ibrahim Nazir Sangi

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PROFESSIONAL EXPERIENCE

GRADUATE ASSISTANT, EASTERN ILLINOIS UNIVERSITY, CHARLESTON, IL (AUG 2017 – PRESENT)

- Remodeling and maintaining Automation and Control Laboratory
- Training and instructing students to complete their Laboratory work
- Designed and build a working model of a robot for ATMAE 2017 Robotics Competition at Cincinnati, OH

GRADUATE ASSISTANT, EASTERN ILLINOIS UNIVERSITY, CHARLESTON, IL (JAN 2017 – MAY 2017)

- Evaluated the methods to maximize the involvement of elder and disabled people in smart home products
- Evaluated smart grid products, based on customer requirements and psychology to ensure greater use of technology
- Maintained CENCERE (Center for Clean Energy Research and Education) facility

DESIGN ENGINEER, AND-OR LOGIC PVT LDT, ISLAMABAD, PAKISTAN (JUNE 2012 – AUGUST 2016)

- Designed, developed and implemented High-Speed multi-layer PCB design (motherboard for NVidia TEGRA X1 SOC)
- Designed, Power systems and developed firmware for inverters, battery chargers, MPPT charge controllers
- Developed firmware for both low and high-level libraries/APIs for micro-controllers including ARM, PIC, C51
- Successfully accomplished production of units as Junior quality assurance officer
- Enhanced PCB designing process by introducing 3D modeling approach (This significantly reduced projects timeline by up to three months)
- Rapid prototyping to evaluate project time, concept, resources, and requirements
- A leading engineer in designing compact, high density, and energy-efficient products
- Ensured efficiency and quality of work
- Hands-on experience with soldering any device (including through hole and surface mount devices)
- An expert in bringing-up and debugging boards/systems
- BOM generation/optimization and purchasing of components from different vendors worldwide
- Supervised/trained sub-engineers and technicians
- Recruited engineers through technical interviews

SKILLS & ABILITIES

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| • Embedded Systems Design | • Mechanical Concepts |
| • Programming Assembly/C/C++ | • Strong Team player, Teamwork |
| • Circuit Designing and Analysis | • Independent and Self-Motivated |
| • Power Electronics design | • Time and energy management |
| • Digital Signal Processing | • Multitasking |
| • Product Design and Development | • Flexible and adaptable |
| • Schematic and PCB Designer | • Vision and challenge oriented |
| • Production and Troubleshooting Skills | • Believe in quality and continual improvement |
| • Hardware and Software debugging | • Leadership and pressure handling skills |
| • Surface mount and through-hole devices soldering | • Bringing up boards |

TOOLS

- | | | |
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| • Altium Designer, Proteus | • Keil µVision, MPLAB, MATLAB | • IAR Embedded workbench |
| • Oscilloscope, Logic Analyzers, Power Supplies, Soldering Iron, DMM | • Microsoft Office, Visual Studio & Visio | • Cadence PCB editor, Capture |

EDUCATION

MS-COMPUTER TECHNOLOGY, EASTERN ILLINOIS UNIVERSITY, CHARLESTON, IL (AUG 2016 – PRESENT) CGPA: 3.89/4.00

- An active member of Research Mentorship Meeting (RMM) held every week
- An active member of robotics design team (Also took part in multiple competitions i.e. ATMAE robotics competition)

BS-ELECTRONICS, COMSATS INSTITUTE OF INFORMATION TECHNOLOGY, ISLAMABAD, PAKISTAN (AUG 2008 – JUNE 2012)

CGPA: 3.31/4.00 (81.06%). WON 3RD POSITION (BRONZE MEDAL)

- Designed Quad Copter as a final year Project

HOBBIES AND INTERESTS

- Reading books, helping people, socializing.
- Playing cricket, badminton, football, and computer games etc.
- Designing and developing interesting circuits to benefit home and society. I also have a blog named. <http://www.ibrahimlabs.com>

