

Ibrahim Nazir Sangi

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PROFESSIONAL EXPERIENCE

GRADUATE ASSISTANT, EASTERN ILLINOIS UNIVERSITY, USA. (AUG 2017 – PRESENT)

- Remodeling and maintaining of 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, USA. (JAN 2017 – MAY 2017)

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

DESIGN ENGINEER, AND-OR LOGIC PVT LTD, 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, USA. (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 working interesting circuits to benefit home and society. I also have a blog named. <http://www.ibrahimlabs.com>