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| Jiten Manilal Bahua  Electrical Engineer     |  | | --- | | **Contact** |     Address  Fremont, CA, 94536  Phone  (256) 652-0569  E-mail  jitenbahua@gmail.com  LinkedIn  https://www.linkedin.com/in/jiten-bahua     |  | | --- | | **Skills** |     Altium    Power Systems    Testing equipment    System Debugging    Hardware Development    Circuit Board    System Design    Power electronics    Power Distribution Techniques    Technical Issue Resolution    System-Level Electrical Design And Integration    Labview    Wiring Schematics    Electrical Engineering    Component Selection    EDA | Resourceful Electrical Engineer offering 2 years background developing and designing new electrical systems and testing electronic equipment. Knowledge of electronic components and test procedures. Diligent and analytical in AC/DC motor drives, high voltage cabling and preliminary electrical design. Ability to handle multiple projects simultaneously with little to no supervision. Familiar with high performance mixed-signal system architecture, board-level design, custom backplanes, FPGA implementations, remote sensory, analog signal conditioning and test engineering.     |  | | --- | | **Work History** |  |  |  |  |  | | --- | --- | --- | --- | |  | 2016-06 - 2018-08 |  | **Junior Engineer**  *Kisan Machinery, Satara, Maharashtra*   * Worked as hardware electrical engineer for single phase and three phase electrical motors. * Responsible for testing and maintenance of auto switches, relays, starter switches and winding of self-priming motors. * Created written specifications for projects. * Maintained timely and accurate oral and written technical reports of engineering activities. * Troubleshot, diagnosed and repaired engineering equipment. |  |  |  |  |  | | --- | --- | --- | --- | |  | 2015-06 - 2015-12 |  | **Internship Student**  *Sai Electricals,* *Mumbai, Maharashtra*   * Designed, Fabricated and Tested auto-switches used for automation of electrical motors. * Designed PCBs using Surface Mounted Devices (SMDs) and fabricated mobile controlled auto- switches. * Determined most effective approaches to new projects by reading and analyzing blueprints, drawings and sketches. * Created, aligned and optimized electrical instrumentation and testing equipment. * Executed product development and implemented new hardware. |      |  | | --- | | **Education** |      |  |  |  |  | | --- | --- | --- | --- | |  | 2018-08 - 2020-04 |  | **Master of Science: Electrical Engineering**  *University of Alabama in Huntsville -* Huntsville*,* AL  GPA: 3.1/4.0 |  |  |  |  |  | | --- | --- | --- | --- | |  | 2013-08 - 2016-05 |  | **Bachelor of Engineering: Electronics Engineering**  *Shah & Anchor Kutchhi Engineering College -* Mumbai*,* Maharashtra  GPA: 3.2/4.0 |  |  |  |  |  | | --- | --- | --- | --- | |  | 2010-08 - 2013-05 |  | **Diploma: Electronics & Tele-communication**  *Maharashtra State Board of Technical Education -* India  GPA: 3.6/4.0 |      |  | | --- | | **Academic Project** |     **Security Access Authentication** (Micro-controller, RFID model, tags, Embedded C, PCB designing)  Built an RTOS using micro-controller 89c51 and also designed circuit for it. Used Embedded C for programing, used sensors and also designed system for power saving mode, used DAC to interface with the peripherals.  **Optimal Time Control** (IEEE paper study)  Studied General theory of optimal control of dynamic processes, calculus of variation, use of Hamilton-Jacobi theory, Pontryagin's maximum principle, dynamic programming.  **Digital Electronics** (LT spice)  Designed different gates and transistors in LT spice, studied their switching characteristics, interconnect effects, and design testability.  **Adaptive Wear for Stress Management** (BLE, Android studio, Arduino, Signal processing)  Designed a bio-feedback system for stress management, also created Android app to interface with the sensors using BLE, Used MATLAB to process the breathing and heart rate signals and synchronized all the devices. |

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