

Keyur Ashokbhai Barot

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EDUCATION

Northeastern University, Boston, MA

Master of Science in **Information Systems**

Sept 2021 - Dec 2023

- **Courses:** Application Engineering and Development, Program Structure and Algorithms

Narsee Monjee Institute of Management Studies, MH, India

Bachelor of Technology in **Electronics and Telecommunication**

Aug 2016

- **Courses:** Operating Systems, Wireless Communication, Digital Electronics, Networking

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python

Packages: MATLAB, Keil μ Vision, Proteus, NI Multisim, Antenna Magus

Platforms: Eclipse, IntelliJ, Jupyter

WORK EXPERIENCE

Quality Assurance Engineer | Flameproof Equipments Pvt. Ltd.

Mar 2018 - Sept 2019

- Inspect, test, and sample materials and assembled products for defects and deviations from specifications and to check the functionality of the products
- To observe production operations of equipment to ensure that specifications are being met and to make and order necessary adjustments to processes and assemblies
- To perform tests such as Megger Test, High Voltage test on equipment to check whether their durability and functionality will withstand in different circumstances
- To make note of results and findings with those in charge of the production and recommend any required corrective measures to be taken
- To handle dispatch of materials being manufactured

Project Engineer | Safe-tronics Automation Pvt. Ltd.

Feb 2017 - Oct 2017

- Design and Implementation of project for fire management
- Commissioning and installation of various gas detectors and flame detectors
- Troubleshooting and fault rectification of gas and flame detectors by visiting various on-site projects
- Managing and Diagnosing the Detectors using their proprietary software
- Monitoring of gas detectors and flame detectors

Intern | Oil and Natural Gas Corporation Limited

Jun 2015

- The total operation and maintenance of the communication system used in ONGC, Mumbai was studied thoroughly. The complexity of the technologies to build the system were taught with applying different concepts and techniques in the project
- Satellite communication between onshore and offshore platforms exchanging data, voice, remote monitoring, video conferencing, decision making, troubleshooting was studied
- Experienced the practical process of communication between onshore and offshore platforms of ONGC
- Presented the role of various programming techniques used for planning and scheduling petroleum refineries

ACADEMIC PROJECTS

- **A Fast Re-route Method — JAVA** Dec 2015 – May 2016
Implemented a method to find an alternate path, after a link failure, from a source node to a destination node, before the Interior Gateway Protocol (e.g., OSPF or IS-IS) has had a chance to re-converge in response to the failure. In case of a break between two nodes, then the alternate route is calculated using Dijkstra's Algorithm
- **'R' Peak Detection in an Electrocardiogram — MATLAB** Jul 2015 – Dec 2015
Detection of the R-R interval in an ECG signal was performed in MATLAB to extract vital information about any irregularities in the heart cycle
- **Traffic Signal Module — 555 IC Timer, MultiSim** Jan 2015 – May 2015
The developed module successfully demonstrated the workings of a traffic signal by using timer frequencies for input
- **Ultrasonic Distance Meter — AT89C2051, μ Vision, Proteus** Jul 2014 – Dec 2014
The measurement of distance was done with the help of a transceiver based on ultrasound frequencies