MOBASSHIR H **AKASH**

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Summary

An Electrical and Biomedical engineer with a strong medical device and Instrumentation background. Efficient and detail-oriented professional with keen interest working in validation and quality engineering. Equipped with strong communications and collaborative work experience in IRB, FDA, ISO 13485 & 14971 at cGMP regulated industry.

Education and Training

Master of Science: **Bioengineering and Biomedical Engineering** (Thesis-Track), 3.86/4.0 **2019**
The University of Texas at Arlington & University of Texas Southwestern Medical Center Arlington, TX

Skills

- Medical Devices
- Quality assurance and control
- Root Cause Analysis and CAPA
- Quality Improvement: DMAIC, FMEA, DOE
- Design: SolidWorks, AutoCAD, Creo, 3-D Printing.
- Data Processing: MATLAB, LabView, Minitab, R
- Documentation: TrackWise, WordPress, MS Office.
- Technical: GLP, SOP, LIMS, V&V, Clean Room

Experience

Analyst- Quality Control, Laboratory Operations **10/2019 to Present**
Alcon Laboratories **Fort Worth, TX**

- Collecting and performing routine analysis of critical stability data and finished product samples.
- Creating, updating, reviewing Master Data and approving as required in LIMS and LabVantage.
- Executing change requests(CR), audit MBR, and approving as required.
- Assisted in performing stability studies and analyze data for solving critical problems, and generated reports.
- Reviewed and backed up laboratory worksheets of more than 8000 product variants and sampling plans for all three facilities of Alcon/Novartis- Fort Worth Campus.
- Trained to practice clean room and medical device QSR(21 CFR 820, ISO 13485 etc.) to manufacturing process.

Graduate Research Assistant, Neuroimaging Lab **08/2017 to 07/2019**
University of Texas at Arlington **Arlington, TX**

- Provided comprehensive research assistance and support while designing research protocols, executing different experiments, presenting and writing technical reports with subtle details for multiple projects.
- Utilized diverse medical devices, including EEG, Doppler and functional NIRS for collecting neurophysiological data of human subjects at different task conditions to extract significant brain area for different decision-making.
- Collaborated with Principal Investigator, doctors, and other PhD researchers to design experiment, collect and analyze real-time patients and subjects' brain electrophysiological data, and handled 4+ data processing software for quantitative analysis on multiple neuroscience projects, funding worth over $1.8M.

Engineer I, Design and Production **01/2016 to 08/2017**
Swiss BioHygienic Equipment Ltd **Dhaka, Bangladesh**

- Designed schematics of P& ID, user-points, and layout of piping using AutoCAD 3D and SolidWorks.
- Worked with the Technical Services team in design transfer for piping, vessel manufacturing, packaging and process specifications, managed inventory and reviewed manufacturing issues for process optimization.
- Developed and executed testing protocols and reports for Validation activities (DQ /IQ / OQ / PQ).
- Assisted to identify problems, track customer complaints using root cause analysis and provided solutions.
- Prepared QA documentation for multiple projects, including- BOM, DHF, welding log, material log calibration certificates, component test sheets documents, reported to QA Manager.

Certifications & Awards

- STEM Graduate Fellowship Recipient throughout the program, UTA, 2018-19.
- OIC International Scholarship(Covering last 3 years of Undergraduate Program), IUT, 2013-2015
- Lean Six Sigma-Green Belt, Coursera, 2020.