Bhargavi Ganesh

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SUMMARY

I enjoy working in the field of engineering for healthcare, where I can apply and assimilate skills in the areas of Development, Quality, Product Management. *Areas of experience*: Product Management, Project Management, Software Testing, Quality Assurance, Feasibility research, Prototype development, Process Improvement, and Technical Writing.

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CA **MAY 2015**
Master of Science – Biomedical Engineering

DWARKADAS. J. SANGHVI COLLEGE OF ENGINEERING, MUMBAI, INDIA **MAY 2013**
Bachelor of Engineering – Biomedical Engineering

CORPORATE EXPERIENCE

Sr. Biomedical Applications Specialist - Product Lead| *Sonosim, Inc. Santa Monica, CA* Jun'15 – Present
(Previously Biomedical Applications Specialist & Medical Data Technician)

- Lead and coordinated efforts across functional teams to document, prioritize and deploy changes for upcoming product releases for two product lines
- Performing product verification and validation studies and generating reports ensuring ISO and HIPAA compliance
- Project Lead for multiple ongoing simulation content projects, performing development, medical data QA and s/w testing
- Perform research and testing for improvement of proprietary tools to enhance medical content quality and standards
- Program simulation scenarios for the Laerdal-SonoSim Ultrasound Training Scenario Modules

Biosensor Research Associate | *Triowave Technologies, Inc. San Jose, CA* Feb'15 - Jun'15

- Literature research for current technologies available for Pain Management
- Feasibility study & research on biosensors and biofeedback analysis for determining product scope in its initial stages

Research Associate | *Nanobios Lab, IIT-B, Mumbai, India* Aug'12 - May'13

- Developed a product for Point of Care creatinine sensing using AVR micro controller and Embedded Programming
- Tested and analyzed the data to predict sensitivity and tolerances

Service Engineer Intern | *Siemens healthcare, Mumbai, India* Jun'12 - Aug'12

- Assisted in Installation, Maintenance and Servicing of CT, MRI, NM, Cath Lab and LINAC across hospitals in Mumbai

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PROJECT EXPERIENCE

Feasibility Study on Brain Computer Interface

- Performed literature review on detailed functioning of multiple BCI technologies.
- Analyzed the devices in terms of signal source, processing, machine learning methods and applications.

Recharging Algorithm for Fetal Pacemaker

- Designing experiments to find the maximum current induced by an RF charging system using LabView
- Writing SOP for performing the tests and recording data

H-H & Cerebellar Sequence Learning Model Simulation

- Simulated using MATLAB neuronal firing plots of HH Model in current and voltage clamp modes
- Simulated using MATLAB a patterned sequence learning system of Cerebellar function called "Hebbian Learning"

Failure Modes Effects Analysis for Duragesic Patch Delivery System

- Performed an FMEA analysis for delivery system safety of the drug patch
- Drafted IFU, RPN Analysis, Presentation and Reports for Risk Mitigation

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SKILLS & COURSES

Technical Skills: D.O.E, MATLAB, LabVIEW, C++, AutoCAD, Embedded C, Algorithms, Simulation development, Technical writing, Jenkins, JIRA, Confluence, MS Office, and Project Management Tools

RA/QA Knowledge: FDA regulations, ISO Standards, FDA pre-market submissions, CAPAs, Quality Systems, Statistical Analysis, Risk Management and Failure Analysis, HIPAA Compliance