

MICHAEL C. CLARK

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OBJECTIVE: Engineering Position

EDUCATION

M. Eng. with Highest Honors in Biomedical Engineering GPA 3.874 / 4.0 **August 2013**
J.B. Speed School of Engineering, University of Louisville Louisville, KY

B. S. with High Honors in Biomedical Engineering GPA 3.733 / 4.0 **May 2012**
J.B. Speed School of Engineering, University of Louisville Louisville, KY

ENGINEERING EXPERIENCE

Hill-Rom (Batesville, IN) **December 2015 – Present**
Supplier Quality Engineer

- Ensure quality and regulatory compliance of purchased metal, plastic, electronic, and architectural products
 - Outline and complete supplier part qualifications for purchased parts
 - Utilize Gage R&R, capability study analysis, and Minitab control charts
 - Conduct ISO9001 and ISO13485 supplier audits across the US
 - Responsible for the quality of product and compliance of documents for multiple major supplier moves
 - Manage supplier quality nonconformance and complaint reduction through CAPA
 - Ensure continuity of the supply chain
 - Analyze trending data for purchased product complaints

Hill-Rom (Batesville, IN) **June 2014 – December 2015**
Advanced QA/RA Engineer

- Product quality engineer for the Affinity and Surfaces Assembly lines in the Batesville Operations facility
 - Ensured quality and regulatory compliance of finished products
 - Reviewed and approved engineering changes pertaining to each assembly line and corresponding products
 - Assisted with the review and closure of engineering investigations for assigned products
 - Collaborated in the reduction of product nonconformances
 - Analyzed trending data for product complaints using Excel and Minitab
 - Actively supported the closure of an FDA 583 warning letter
 - Managed three direct reports: monitored activities, completed APEX performance reviews and set employee goals
 - Conducted internal audits to ISO9001, ISO13485, and 21CFR820 standards as an auditor and as a lead auditor

Advanced Solutions Life Sciences (Louisville, KY) **June 2013 – June 2014**
Biomedical Engineer / Project Manager

- Project Manager of the Tissue Structure Information Modeling (TSIM™) software product
 - Aided in the development and design of the functional specifications for the TSIM™ software product
 - Drafted the initial functional specifications document for TSIM™
 - Planned lab tests and ensured quality of TSIM™ build cycles
 - Partnered in the advancement and incorporation of the science of 3D printed constructs in TSIM™
- Project Manager of the BioAssemblyBot (BAB) workstation product
 - Collaborated with the design engineer to design the BAB prototype and Version 1
 - Managed parts procurement and vendor contracts for BAB workstation components
 - Assembled BioAssemblyBot workstations and tested functionality
- Managed TSIM™ and BAB timelines as well as key milestones to ensure projects are delivered on time and on budget
- Interacted with prospective customers to demonstrate the capabilities of TSIM™ and the BioAssemblyBot

Interdisciplinary Oncology Laboratory, University of Louisville August 2012 – August 2013
Graduate Research Student (Master's Thesis)

- Generated the code to accommodate the effects of drug delivery on cancerous tumor growth in 3D using mathematical modeling

Small Systems Laboratory, University of Louisville May 2012 – August 2012
Graduate Research Student

- Cultured and cryopreserved cell lines to test binding on fabricated carbon nanotube field effect transistors via a LabVIEW interface

Neuronetrix (Louisville, KY) June 2010 – May 2012
Co-op Student

- Travelled as an ambassador for the company to the Cognitive Neuroscience Society annual meeting of 2012 with the Executive Vice President of Business Development to interact with potential customers and generate sales opportunities
- Reviewed and archived clinical study documents under the tutelage of the Clinical Study Coordinator
- Worked with Director of Production and Development to generate a user manual for the medical device as well as solutions for manufacturing optimization, software/electrical components debugging, and ergonomics

Cellular Bioengineering REU, Rutgers University May 2011 – August 2011
Research / Co-op Student

- Characterized astrocyte adhesion when introduced to different functionalized type I collagen substrates. Data was presented at an oral presentation and showcased at the REU's (Research Experience for Undergraduates) mini symposium

BioMimetics Laboratory, University of Louisville May 2009 – June 2009
Research Student

- Formulated standard curves of the wavelength absorption of chlorhexidine for a drug delivery project with the objective of antibiotic and biofilm-degrading enzyme delivery from silk fibroin catheter coating

CERTIFICATIONS

Hill-Rom Internal Lead Auditor August 2015
Hill-Rom

Certified Biomedical Auditor (March 2015 – June 2019) March 2015
American Society for Quality

LEADERSHIP AND VOLUNTEER EXPERIENCE

Batesville Soccer Club (Batesville, IN) Spring 2015 – Fall 2016
Youth Soccer Coach

Tau Beta Pi Engineering Honors Society, University of Louisville Fall 2011 – Fall 2012
Vice President of the Ky Beta Chapter

The Kappa Sigma Fraternity, University of Louisville Fall 2008 – Fall 2012
Scholarship Committee (2009), Scholarship Chair (2010), Philanthropy Committee- Director of Partnership (2011), Community Service Chair (2011)

ADDITIONAL EXPERIENCE

Ghyslain Chocolatier (Louisville, KY) – Server Spring 2013

Ralph Wright Natatorium (Louisville, KY) – Student Work Study Fall 2008 – Summer 2010

Thompson Brothers Plumbing (Louisville, KY) – Plumber's Assistant Summer 2007