G. CHRIS DOKOS

6815 SW Nyberg St #F-304, Tualatin, OR 97062
(801) 548-0248 | gcdokos@me.com
www.linkedin.com/in/gchrisdokos

Highly adaptable and skilled Engineer with more than 5 years of process development experience and a passion for continuous improvement. Increased rolled throughput yield on key cost driving component from 35% to 75%. Built a reputation for thorough work and delivering quality products on time in an environment with rapidly changing priorities and very limited budgets.

KEY ACCOMPLISHMENTS

- Applied problem-solving skills to troubleshoot and resolve manufacturing issues resulting in successful delivery of $2MM development project to a pharmaceutical industry customer.
- Facilitated the development, bench scale to volume commercial production, of solid-state ceramic filter membranes
- Designed and executed DOE to develop formulation for a tape casted, three-dimensional, ceramic-polymer composite structure for use as an algae filter
- Developed a Microsoft Access database for ceramic membrane production including discrete operator and engineering graphical user interfaces for data entry and analysis
- Designed and implemented new production floor layout for a new production facility in Denver, CO

SKILLS

- Lean/Six Sigma Methodologies
- Microsoft Access
- Minitab
- SEM (JEOL), EDS (EDAX)
- Instron
- BET Surface Area
- Experience with Arduino, Python, MATLAB
- Basic Solidworks, Project, Visio

PROFESSIONAL EXPERIENCE

Process Development / Production Engineer August 2017 – Present

Enlighten Innovations, Denver, CO / Salt Lake City, UT

Commercialization of sodium and lithium-ion conducting ceramic separators. Primary application in the desulfurization of bunker fuel to meet tightening international marine fuel regulation.

- Expanding a lab scale process from 500kg to 50,000kg per year to meet commercialization targets
- Spearheading quality activities for ceramic powder production including writing all procedures, control documents, process travelers, and new supplier qualification
- Validating outsourced toll processing partners to provide throughput flexibility with minimal capital expenditures
- Sourcing, sizing, and specifying process equipment to bring manufacturing capacity in-house

Process Engineer II May 2016 – August 2017

Process Engineer I May 2014 – May 2016

Research and Development Co-Op October 2012 – May 2014

Ceramatec, Salt Lake City, Utah

A research and development company specializing in electrochemistry, ion-conducting membranes, and advanced ceramic materials.

- Planned, launched, and led a Green Belt Project team of five to perform an extensive 5S of shared factory space using Operational Excellence (Six Sigma, LEAN, TOC) tools
- Reduced process lead time by 50% and improved rolled throughput yield as a super member of a six-month Lean Six Sigma Black Belt project

G. CHRIS DOKOS

6815 SW Nyberg St #F-304, Tualatin, OR 97062
(801) 548-0248 | gcdokos@me.com
www.linkedin.com/in/gchrisdokos

- Championed improvement efforts to de-risk critical visual inspection processes utilizing kappa analysis during a measurement system analysis Kaizen event
- Created and maintained a quality system to control production routings, in-process inspection, and data collection
- Directed daily tasks and fielded queries from two process technician staff members
- Utilized capability analysis in Minitab to guide tooling and product design
- Developed manufacturing process instructions and procedures amenable to technology transfer to large scale manufacturing partners
- Created an interactive Excel flaw catalogue application using VBA to detail flaw patterns and severity
- Qualified and commissioned thermal process equipment to increase process throughput without necessitating capital expenditure
- Gained extensive SEM experience, intermediate Instron experience, and basic experience in Solidworks

EDUCATION AND PROFESSIONAL DEVELOPMENT

Bachelor of Science May 2013

Biomedical Engineering with Material Science Track Emphasis

- University of Utah, Salt Lake City, Utah
  - *Material characterization, biomaterials, computational methods (MATLAB), biochemistry, biophysics, biomechanics, medical device design (21 CFR 820)*

CoorsTek Operational Excellence April – May 2016

OpX Green Belt Certification Course

- Lean, Six Sigma, Theory of Constraints

American Ceramic Society October 2016

Materials Science and Technology Conference

- Sintering of Ceramics Short Course by Prof. Mohamed Rahaman

AWARDS AND CERTIFICATIONS

- OpX (Lean / Six Sigma) Green Belt – CoorsTek Operational Excellence

- Awarded "*Most Innovative Design"* for developing a video monitoring device to noninvasively measure neonatal activity and respiratory rates using reflective markers affixed to clothing or diapers. This work was structured under the FDA Quality System Regulations (21 CFR 820) to guide development, validation and verification, prepare a design history file, and conduct design reviews.

- Forklift Operation Certification