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## TECHNICAL SKILLS

Project Management, Work Breakdown Structure, Mindjet MindManager, IQ/OQ/PQ, Statistical Process Control, Visio, Microsoft Project, MiniTab, AutoCAD, MySQL, SAP, HTML/CSS, R, SAS

## PROFESSIONAL EXPERIENCE

### Manufacturing Engineer II | Medtronic – Santa Ana, CA

Jan 2019 – Present

Project: Electronic Device History Record(e-DHR) and Electronic Batch Record(e-BR) Initiative

- Spearheaded design of product and information flow during implementation of e-DHR and e-BR initiative using streams in Visio.
- Created work breakdown structure in collaboration with cross-functional team using Microsoft Project and Mindjet MindManager.
- Organized and led sprint meetings with stakeholders to ensure Gantt timelines are maintained with effective resource management.
- Facilitated utilization of SAP Enterprise Resource Planning in test and production environments.

Project: Heartbeat 2.0 Cost Reduction Initiative

- Assisted project manager with timeline creation and work breakdown structure planning for labor reduction overhaul of assembly process. (Projected cost savings: \$10 million/year)
- Collaborated with Microbiology to write and release protocols for microbiological testing and qualification of new tooling and fixtures.
- Developed sub-project plan for new part number release for all products impacted by new process.
- Coordinated vendor liaisons for sourcing of machined subassemblies for new tooling/fixtures.

### Associate Manufacturing Engineer | Medtronic – Santa Ana, CA

Jan 2018 – Jan 2019

- Wrote protocols and reports for qualification and validation activities of process changes and new equipment introduction.
- Dispositioned nonconforming product by investigating root cause and designing corrective actions to prevent recurrence.
- Provided daily support to troubleshoot and resolve equipment and process issues on multiple value streams, reducing downtime and implementing one-piece flow processing in several production sequences.
- Identified process improvement opportunities in the valve assembly process and led Lean-Six Sigma projects based on those opportunities for improvement, effectively improving manufacturing yield and optimizing material usage variance of production areas.

Project: Yield Improvement for Valve Assembly Process

- Led a cross-functional team to determine scope and regulatory requirements for implementation of a new subassembly product.
- Wrote and performed design characterization protocol and report with assistance from design counterparts to investigate if a previously unacceptable characteristic can be characterized as acceptable under the right circumstances.
- Submitted report and findings to FDA with assistance from regulatory affairs counterpart to allow production and clinical use of subassemblies with new specification defined within certain geographies utilizing HDE 75-day submission for USA-based product.
- Updated manufacturing procedures and specifications to allow for new acceptable characteristic, improving product yield by 10%.

### Process Quality Engineer | FreshRealm LLC – Riverside, CA

May 2017 – Jan 2018

- Wrote, reviewed and maintained integrity of company-wide GMPs, SOPs and Quality Control Policies.
- Solved and mitigated process and product related non-conformances by owning and leading site-level CAPA projects by acquiring, cleaning and mining data for production-based root-cause analysis of quality issues.
- Bolstered company efforts to obtain SQFII and ISO certification through the release of important quality systems policies.
- Drove continuous improvement within production facility to enhance productivity and profitability based on specific key performance indicators while adhering to food safety standards.

Project: West Coast Retail Program Launch & Riverside Facility Start-up

- Facilitated launch of new retail program in freshly-acquired facility, including layout planning and scalability initiatives post-launch.
- Organized set-up of production lines and inventory locations utilizing Lean Six Sigma concepts like Kanban systems, Cell layouts for efficient product flow and 5S Methodology to minimize waste.
- Trained and managed a team of Quality Technicians to perform standardized work involving quality management system adherence.
- Oversaw line improvement and quality deficiency response projects to completion with the use of sprint planning and Gantt chart timelines to achieve major milestones.

### Section Commander, Sergeant | Singapore Armed Forces – Singapore

June 2010 – June 2012

- Oversaw a six-man team during multiple tactical situations and excursions.
- Instructed, supervised and trained new recruits to perform military movements and protocols.
- Designed and executed tactical strategies to improve mission success ratings.

## EDUCATION

**B.Sc Industrial Engineering** | Economics Minor | Statistics Minor  
**Purdue University** | West Lafayette, IN | 2012 - 2016