

Aakash Sekar

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OBJECTIVE

Seeking a full-time position to learn, advance and contribute to engineering operations

EDUCATION

University at Buffalo, The State University of New York

MS, Industrial Engineering, Mar 2023

Course Work: Operations Research, Sustainable Manufacturing, Supply Chain Management, Production Planning & Control

PSG College of Technology, India

BS, Instrumentation and Control Engineering, May 2019

Course Work: Industrial Instrumentation, Control Systems, Measurements and Control, Six Sigma Quality

SKILLS

Tools Basic: Tableau, MATLAB, Minitab, SAP, DeltaV, Aspen InfoPlus.21, Bluebeam Revu, MS Office, MySQL

Functional: 5S, DMAIC Methodology, P&ID's, SPC, Value Stream Mapping, Root Cause Analysis, Process Improvement, Process Optimization, Cost Reduction, Documentation/Reporting Readiness

WORK EXPERIENCE

Bayer CropScience LP, Iowa, USA

Process Engineer, Apr 2023 – Sep 2025

- Troubleshoot process issues using Aspen HYSYS and developed action plans that reduced downtime by 15%
- Handled P&ID drawings for an aerobic wastewater treatment plant to manage overall operations and executed cost saving initiatives through lean principles that reduced annual operating expenses by \$75K+
- Assisted in conducting Process Hazard Analyses to drive process safety, thereby reducing incidents by 30%
- Redefined raw material processes resulting in a 10% reduction in excess stock and quality-related production issues
- Interpreted literature, RCA reports and devised Plan-Do-Check-Act for existing systems improving reliability by 40%

Cnergy Ortho Care Private Limited, Chennai, India

Industrial Engineer, Apr 2020 - Jun 2021

- Architected an NPI into demand planning and leveraged the O2C (Order to Cash) cycle
- Administered weekly status of customer orders in excel and maintained optimum inventory across 3 warehouses
- Collaborated with diverse, cross-functional teams to achieve safety, quality, delivery, cost, morale (SQDCM) goals

Cognizant Technology Solutions, Coimbatore, India

Programmer Analyst Trainee, Jun 2019 – Mar 2020

- Converted business requirements of clients – into clear and coherent software specifications thereby reducing document rework% from 28% to 5%
- Generated As-Is analysis for artifacts with six sigma pedagogy improving efficiency by 70%
- Enhanced the process by bug fixes alongside setting breakpoints so as to reject delays in software release

ACADEMIC PROJECTS

Glasgow Caledonian University, Scotland, UK

Exchange Student, Summer 2017

- Helped author SOPs/Standard Work Instructions (SWIs) for the newly installed application
- Leveraged material flow procedures to shorten the lead times from 4 weeks to 2 weeks

PSG College of Technology, India

AntLion Optimization of PID Controller for Speed Control of PMSM, Oct 2018

- Applied the technique of AntLion optimization (ALO) to control speed and performance of Permanent Magnet Synchronous Motor (PMSM), which is used in numerous applications

Nuclear Power Corporation of India Limited (NPCIL), India

In-plant Project Trainee, Apr 2018

- Deployed DMAIC and continuous improvement techniques to develop KPIs and monitor OOE
- Exposed to Automated Process Control System, especially its resource usage and nuclear plant safety