

Adam Sohn

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Senior Engineer with over 17 years of experience developing and managing automated manufacturing for semiconductors. Passionate about comprehending complex problems and developing innovative solutions.

Technical Skill

Robotics
Python
SQL
C++
Unix
Git
Visual Basic
JMP Scripting
Windows Server
InfoPath Designer
AutoCAD

Factory Management

Autonomous Systems
Integrated Systems Troubleshooting
Operations Management
Personnel Management
Construction Management
Lean Six Sigma
ISO 9001 Compliance

Strategic Planning

Performance Modeling
Ramp/Capital Planning
Layout Planning
Decision Support
Engineering Team Leadership

EXPERIENCE:

Intel Corporation – Hillsboro, OR

Automated Material Handling System Development Engineer

9/10-present

Manage technical and business aspects of WIP storage and monorail delivery systems. Lead technical troubleshooting and recovery task forces for system anomalies.

- Reduced all equipment error rates by 90%. Tactics employed were focus on error pareto, improving maintenance procedures, developing new solutions to address chronic issues, and a focus shift with technician staff to drive root cause fixes or mitigation plans for every issue seen. Proliferated learnings to all sites.
- Planned and executed full factory AMHS demo/install to deliver 6x delivery time improvement.
- Reduced storage device installation time by 20 months.
- Developed electronic pressure control valve rebuild process, reducing annual budget by \$3M.
- Developed InfoPath system for proactive inspection walks and preventative maintenance. System reduces administrative time for technicians, eliminates paper records, and provides triage guidance with button-click escalation. Neglect-based errors eliminated.
- Developed SQL-based dashboard graphs for early warning monitors and system performance metrics. Stress testing as measured by dashboard graphs enabled system capacity to be reset to 25% above simulated results.
- Developed Operations, Troubleshooting, and Qualification manuals for new storage devices.
- Group owner for ISO 9001. Led certification and recertification without findings.

Intel Corporation – Hillsboro, OR

Factory Operations Manager

1/08 - 8/10

Managed WIP flow, removing strategic and tactical roadblocks to output. Led interview process for hiring technician positions. Managed 25 technicians responsible for maintaining and operating process equipment. Led Emergency Response Team.

- Managed staff to consistently be highest rated team on shift.
- Led Kaizen blitz and cross-shift challenge, closing 10% performance gap on preventative maintenance activity.
- Led chemical spill, biohazard, factory evacuation, and gas leak responses as Emergency Response Team leader.

Intel Corporation – Hillsboro, OR

Sort Technology Development Industrial Engineer and Corporate Team Leader 6/01-12/07

Coordinated team of 12 engineers from 8 sites to manage corporate capacity network. Developed capacity models to drive strategic development and led capital decision making process. Managed facilities layout design, construction, and tool qualification.

- Forecasted and procured capital funding for all sites' long range plan. ~\$80M per quarter.
- Developed self-defined demand data sets for star products to mitigate upside risk.
- Used Six Sigma DMAIC methodology to improve output capability of Sort module by 20% relative to original OEM module configuration. Generated capital savings of \$16M.
- Developed predictive models for capacity parameters, increasing requirements characterization from 75% to 98%.
- Negotiated and managed execution of \$200M capital reuse plan.
- Developed office ergonomic program which brought 20 afflicted employees into treatment and prevented 40 others from developing trauma.

EDUCATION:

Masters Candidate, Information and Data Science. UC Berkeley. Expected Graduation 2021
BS, Industrial & Manufacturing Engineering. Pennsylvania State University