Tongchee Y. Yang

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Mechanical engineer with 12 years of experience in quality, management, heat treat, grinding and turning department. Experience with training operators and technicians, writing standard operating procedures, installing new machines, maintaining a budget and supporting production in a precision manufacturing facility.

Experience:

NTN Corp 2018~present

Anderson, Indiana

Process/Heat-Treat Engineer

-Worked with outside contractor (machine riggers, electricians and pipefitters) to install 2 induction hardening machines, 2 tempering ovens and 4 transferring system

-Developed new parts through induction hardening process

NSK Corp 2017~2018

Liberty, Indiana

Process/Heat Treat Engineer A

-Managed 3 Heat Treat Technicians

-Controlled daily operations of 17 heat treat machines

-Performed daily, monthly and annual maintenance on heat treat machines

-Wrote Standard Operating Procedure on heat treat production procedures

-Controlled induction hardening and tempering coils

-Troubleshoot heat treat lines (total of 16 heat treat machines and 7 furnaces) through pneumatics, PLC, hydraulics and electrical.

-Controlled heat treat quality by working with metallurgist

-Worked with vendor to improve heat treat machines with latest technologies (ex: better prox sensors, color detecting sensors, digital data logger and etc)

-Implemented Eddy Current NDT to check for surface flaw using FANUC robots

-Prepared PPAP for new part numbers

Davis Manufacturing 2016~2017

Denver, Colorado

Manufacturing/Project Engineer

-Perform initial assessment of new parts to established procedures and processes within customer's specifications

-Generate travelers and work orders with technical procedures, plans and engineering documentation in JobBOSS as required for manufacturing

-Organized and purchased materials from component, raw material, machining, assembly and testing for projects based on BOMs

-Participate in improvement activities such as 5S, Kaizen events and Value Stream Mapping

-Excellent organization, decision making and problem solving skills within a team environment

-Work directly and virtually with other engineers, project managers, management and production planners to meet daily production delivery schedules

Chrysler 2013~2015

Kokomo, Indiana

Skilled Trades Supervisor

-Managed 10 skilled trades (Electrician, Mill-wright, Pipefitter, Machine Repairman and Toolmaker)

-Wrote detail breakdown reports on multiple failure items and large investment items

-Established preventative maintenance on machines

-Updated key performance indicators on bottle neck process (efficiency of machine, machine downtime, machine mean time for repair and scrap ratio)

-Implemented changes and improvements on bottle neck process to help improve safety, reduce cycle time by eliminating the deburr process (Improving the process by 15%) and prevent future breakdowns by implementing preventative maintenances.

-Used PentaSAP to purchase machine components, material and tools.

NSK Precision America 2008~2013

Franklin, Indiana

Process/Heat Treat Engineer A

-Updated and maintain macro programs for hard turning ball groove and shaft end work

-Wrote CNC programs for journal work on CNC lathe

-Budget and schedule CNC machine upgrades and new purchases

-Worked with machine vendor on specking and installing new CNC lathe

-Ensured shaft turning processes is capable of producing quality parts

-Programmed Mitutoyo CMM to check ball screw nuts

-Used 5 M's and 5 Why's method to solve production issues

-Controlled shaft turning tools/inventories

-Identified and implemented cost reduction and quality improvement projects for heat treat and turning department (ex: wrote Microsoft Excel program to improve traceability, worked with vendor to install vending machines for shaft turning department, and etc)

NSK Corp 2001~2008

Liberty, Indiana

Process/Heat Treat Engineer B

-Controlled daily operations of 15 heat treat machines

-Performed daily, monthly and annual maintenance on heat treat machines

-Wrote Standard Operating Procedure on heat treat production procedures

-Controlled heat treat and tempering coils

-Troubleshoot all heat treat lines (total of 16 heat treat machines and 7 furnaces) through pneumatics, PLC, hydraulics and electrical.

-Controlled heat treat quality by working with metallurgist -Worked with vendor to improve heat treat machines with latest technologies (ex: better prox sensors, color detecting sensors, digital data logger and etc)

-Implemented Eddy Current NDT to check for surface flaw (cracks, dents and nicks) -Prepared PPAP for new part numbers

Education:

1996~2001

Bachelor of Science Mechanical Engineering Indiana University and Purdue University at Indianapolis Indianapolis, Indiana

References available upon request