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(399).248.2928  
Patrick Raymond  
Staff Engineer / Scientist - International Business Machines  
Enosburg Falls VT - Email me on Indeed: indeed.com/r/Patrick-Raymond/39e936afa72c013a  
Seeking a challenging exciting and energetic engineering position with a growing and/or cutting edge company corporation or entity. New process start-up R&D transfer to manufacturing or exclusive R&D activities are key areas of interest for employment.  
WORK EXPERIENCE  
Staff Engineer / Scientist  
International Business Machines - Essex Junction VT - 2009 to Present  
Source new or used equipment provide specifications perform pre-acceptance oversee installation perform qualification and perform post acceptance. Create documentation pertaining to operations and standard work. Transfer processes from research and development to a completely setup manufacturing line.  
 Develop and introduce new processes to continuously drive the next advancement in technology improve current production quality lower costs and improve throughput / turn around time.  
 Train new engineers and technicians to take over ownership of new equipment and processes.  
 Develop preventative maintenance plans and standard work to maintain and support new equipment and processes.  
 Continuously monitor product signals and feedback from customers to resolve issues or find opportunities to add value and improve quality for the customer.  
 Determine root causes of failures using statistical methods and recommend changes in designs tolerances or processing methods.  
 Provide technical expertise or support related to manufacturing  
 Supervise technicians and other engineers  
 Troubleshoot new or existing product problems involving designs materials or processes.  
 Review product designs for manufacturability or completeness.  
 Train production personnel in new or existing methods.  
 Communicate manufacturing capabilities production schedules or other information to facilitate production processes.  
 Design install or troubleshoot manufacturing equipment.  
 Apply continuous improvement methods such as lean manufacturing to enhance manufacturing quality reliability or cost-effectiveness.  
 Investigate or resolve operational problems such as material use variances or bottlenecks.  
 Estimate costs production times or staffing requirements for new designs.  
 Evaluate manufactured products according to specifications and quality standards.  
 Purchase equipment materials or parts.  
 Design layout of equipment or workspaces to achieve maximum efficiency.  
 Design testing methods and test finished products or process capabilities to establish standards or validate process requirements.  
 Read current literature converse with colleagues participate in educational programs attend meetings attend workshops or participate in professional organizations or conferences to keep abreast of developments in the technology field.  
 Develop sustainable manufacturing technologies to reduce greenhouse gas emissions minimize raw material use replace toxic materials with non-toxic materials replace non-renewable materials with renewable materials or reduce waste.  
   
 Evaluate current or proposed manufacturing processes or practices for environmental sustainability considering factors such as green house gas emissions air pollution water pollution energy use or waste creation.  
Engineering Technician  
International Business Machines - Essex Junction VT - 2006 to 2009  
Created and optimized equipment process programs.  
 Dispositioned product after a process deviation or tool malfunction.  
 Provided corrective actions for out of control processes.  
 Set up and operated production equipment in accordance with current good manufacturing practices and standard operating procedures.  
 Monitored and adjusted production processes or equipment to maintain/improve quality and productivity.  
 Troubleshot problems with equipment devices or products.  
 Trained technicians.  
 Measured and recorded data associated with equipment operations.  
 Assisted engineers in developing new products processes or procedures.  
 Prepared production documents such as standard operating procedures.  
 Provided production progress and changeover reports to shift supervisors and management.  
Engineering Technician  
International Business Machines - East Fishkill NY - 2003 to 2006 Same as above.  
Production Associate  
International Business Machines - Essex Junction VT - 2000 to 2003  
Operated production equipment.  
 Trained operators on production equipment. Performed required equipment qualifications. Safety representative.  
Bookkeeper  
Travers Forest Products - MontreՁal QC - 1997 to 2000  
Accounts Receivable Accounts Payable Payroll Financial Forecasting  
EDUCATION  
M.E. in Microelectronics Manufacturing Engineering  
Rochester Institute of Technology - Rochester NY 2010 to 2013  
B.S. in Electrical & Mechanical Engineering  
Rochester Institute of Technology - Rochester NY 2006 to 2009  
A.S. in Engineering Science  
Dutchess Community College - Poughkeepsie NY 2003 to 2005  
A.S. in Business Management  
Champlain College - Burlington VT  
2001 to 2003  
High School Diploma  
Enosburg Falls High School - Enosburg Falls VT 1997  
ADDITIONAL INFORMATION  
Skills  
 Root Cause Analysis  
 Failure Mode Effect Analysis (FMEA)  
 Lean Manufacturing Principles  
 Statistical Process Control (SPC)  
 Design of Experiments (DOE)  
 MS Word Excel PowerPoint Project  
 PLC Programming (Rockwell Automation) AutoCAD  
 SolidWorks  
 Dreamweaver (website building)  
 C/C++