

Bruce D Patterson

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Summary

- Production manager experienced in various manufacturing environments with a history of successfully developing and optimizing processes and streamlining overall workflow through the application of appropriate lean principles and a common sense approach.
- Successfully collaborates across departments to engage all resources in a unified approach to minimize waste and enhance efficiency and manufacturability.
- Significant experience in key operations processes including documentation control, Bills of Materials, and managing the development, test and implementation of a custom MRP system.

KM Labs, Inc. Boulder, CO www.kmlabs.com Oct 2010-Nov 2011
Supervisor: Neil Anderson 303-544-9068

Manufacturing Manger (new position for this company)

- Developed Manufacturing Manager role in order to progress company from custom laser laboratory to production manufacturer.
- Created BOMs to reflect logical sub-systems and pre-buildable sub-assemblies, allowing Laser Engineers to focus on high-value processes.
- Improved physical infrastructure and lab setup protocols to minimize lost time in build process.
- Formalized production processes and documents to drive repeatability and efficiency.
- Defined and created production development role in organizational structure.
- Assisted in development of ECO process.

High Precision Devices, Inc. Boulder, CO www.hpd-online.com Aug 2003-Jul 2010
Supervisor: Larry Carmichael 303-447-2558

Manufacturing Manager

- Led the creation of the assembly department; performed all technical assembly.
- Drove the effort to streamline multiple new and existing production processes, as well as the design and fabrication of tooling for ease of manufacturing which resulted in labor savings of approximately 30% per build.
- Managed the procurement of materials from external suppliers as well as in-house machine shop.
- Supervised assembly technicians.
- Collaborated across engineering, shop and assembly on manufacturability and scheduling issues to ensure correctness, efficient workflow and timeliness.
- Coordinated extensive development and refinement of existing custom MRP system.
- Participated in discussions of underlying scientific principles related to a product, allowing for more effective troubleshooting and product improvements.

Network Photonics, Inc (closed April 2003) Boulder, CO May 2001-Apr 2003
Supervisor: Mike Schnettler (current work 720-407-3262)

Lead Assembly Technician

- Selected to lead the start-up of the assembly department.
- Facilitated the development of manufacturing processes, procedures, and documentation.
- Supported Engineering development tests.
- Experienced with clean room practices.

Watlow (closed facility Oct 2001) Boulder, CO

Aug 2000-Apr 2001

Supervisor: Denny Stephenson (home office Columbia, MO 573-814-1300)

Operations Manager

- Recruited to manage the start-up and the manufacturing operations of new Boulder facility.
- Implemented Demand Flow Technology practices in low volume/high mix manufacturing facility, to serve local customer and support low volume orders from home manufacturing plant.
- Developed new manufacturing techniques and processes leading to an improvement in production yield by an average of 20% per annum.

Kryptane Systems, LLC (formerly Kryptonics) Louisville, CO

1988-2000

Supervisor: Toby Peterson 303-664-9467

Department Manager

- Progressed from manufacturing tech to manager of the Precision Products division, with overall responsibility for process development, Quality Assurance, scheduling, and procurement for a team of 10 people, as well as customer interaction on scheduling and functional issues.
- QC inspector: Helped develop inspection techniques and identify problem areas.
- Engineering Technician: Worked with QC and manufacturing teams to suggest process improvements leading to better efficiency and higher yield.
- Process engineer: Developed and refined new and existing manufacturing processes; engaging manufacturing technicians to identify functional strategies and implement improvements.
- Manager Precision Products Division: Oversaw process development and engineering, scheduling, raw materials and sub-assembly procurement, quality assurance, customer interaction, employee supervision.

Equipment and Software Experience:

Inspection: Video Measurement Systems, CNC Optical Comparator, Optical Flats, Standard Mechanical Instruments

Machining: Lathes, Mills, Grinders and Diamond Turning Machine, CNC setup

Software Tools: Solid Works, AutoCAD R14, SPC Software, Advanced MS Excel and Access, MS Outlook and MS Word, Fourth Shift MRP Software and Custom MRP Software

Education:

Introductory Engineering Coursework [Georgia Tech]

Geometric Dimensioning and Tolerancing, Solid Works Software Clinic , DFT seminar, TQM Certification courses [CU Boulder], SPC Coursework [Front Range Community College], Electronics Training [DIT]

Additional Experience: In Service Inspection Assistant (Intern) for J.M. Farley Nuclear Power Plant, Dothan, AL, Chemical/Biological/Radiological NCO for the United States Army