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| Summary | | | | |
|  | Dedicated Engineer with excellent technical, analytical, & communication skills demonstrated by 16 years of experience in Manufacturing environments including the last 8 years specializing in industrial Robotic automation. | | | |
| skills | | | | |
|  | Programming  * Fanuc Robotics advanced TP & Karel programming * Fanuc CNC Controls machine language (G & M Code & PMC) advanced programming * Various CNC programming packages & languages  Software  * Microsoft Office products * Fanuc Robotics Roboguide off-line programming & simulation of complex work cells * Fanuc Ladder 3 ~ PLC programming for Fanuc CNC & Robots * Machine Vision Systems ~ Fanuc iRVision & Cognex In-Sight * AutoCAD / MasterCAM  Miscellaneous  * Extensive business travel (≈40%), both domestic & international * Manufacturing processes & organization * Quality Assurance / Control & Statistical Process Control (SPC) * Hands on Machine Shop experience (Milling / Turning / Grinding) | | | |
| Experience | | | | |
|  | | Applications Engineer | 12/2004 - Current | |
|  | | Weldon Solutions ~ York, PA  *Manufacturer (OEM) of Weldon CNC Grinders & Fanuc Robotics Systems Integrator*   * Grinding process (cylindrical external, internal, & non-round) development / improvement / optimization, & programming of Weldon manufactured high precision CNC Grinder line of products using conventional & super abrasives processing parts of many different types of material (carbide, ceramic, exotic aerospace alloys, & hardened tool steels) for differing industries to end customers specifications * Robotic process development, programming, & setup of Weldon designed automated work cells utilizing a wide range of Fanuc Robots (4/5/6 axes of arm motion & auxiliary axis motion), custom designed cell components, & end of arm tooling in the areas of machine tending, material handling, material removal, packaging / palletizing, assembly, vision guidance / inspection, & force sensing * Direct impact on the successful installation & operation of over 60 Robotic automated work cells * Key member of multi-functional project teams (Grinder & Robotic). Able to handle numerous projects simultaneously, while working independently & unsupervised to complete individual project goals. Project team interactions consisting of:   + Sales Department ~ Determining specific needs of a project, including pre-sale efforts & site visit activity   + Mechanical Engineering ~ Having direct input into designs & components   + Electrical / Controls Engineering ~ Concurrent program development & startup / debugging assistance of electrical & PLC/HMI systems   + Work within Customers’ Quality Control parameters & safety protocols for completion & successful end product   + Work as on-site Project Manager of Automated System installations overseeing entire project completion & installation personnel * New & existing product research, evaluation, development, & demonstration * Provide complete, well written, & organized engineering level documentation * Provide ongoing Customer Service, both remotely & on-site, with comprehensive system trouble shooting knowledge * Published a technical paper in the Summer 2008 Finer Points technical journal entitled ”*Developments in High Production Peel Grinding in Water*” in conjunction with Dr. Michael Hitchiner of Saint-Gobain Abrasives that was presented at the Intertech 2008 Industrial Diamond & CBN conference in Orlando, FL | | |
|  | | Shift Group Leader / CNC Operator | | 07/2002 – 12/2004 |
|  | | Gerhardt USA ~ Dallastown, PA  *Manufacturer of Rotary & Flexible Cutting Dies*   * 2nd Shift Lead Supervisor of approximately 15 employees * Worked with Production Manager to set shift production schedules & priorities * Setup, testing, & operation of precision CNC machining centers * Interacted with other Gerhardt team members at various worldwide locations | | |
|  | | Programmer / Tooling Engineer | | 05/2000 – 07/2002 |
|  | | Form Tool Technology ~ York, PA & Columbia, SC  *Manufacturer & Re-conditioner of Performance Metal Cutting Tools*   * Advanced part simulation & programming of ANCA precision CNC Tool & Cutter Grinders * Setup new manufacturing facility in Columbia, SC, including equipment selections * Oversaw entire day to day operation of tooling production including direct supervision of approximately 5 employees * Lead process testing, improvements, & time studies * Interacted with customers of differing industries to determine specific tooling needs | | |
| Education | | | | |
|  | | Pennsylvania College of Technology | | 09/1996 – 05/2000 |
|  | | Williamsport, PA  B.S. in Manufacturing Engineering Technology ~ Graduated Magna Cum Laude  A.A.S. in Toolmaking Technology ~ Graduated with High Honors  Certificate in Machinists General ~ Graduated with Distinction  Alpha Chi national Honors Society ~ Inducted Fall of 1999  University employed Math (Trigonometry & Calculus) & Physics Tutor from Fall 1998 until graduation | | |