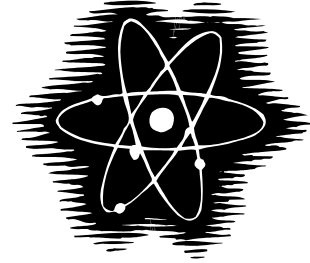


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# Richard McKinney

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- Skills**
- Possesses a demonstrated ability to recruit the resources (knowledge, skills, information, or assistance) to solve a problem.
  - Possesses a demonstrated ability to maintain numerous projects simultaneously.
  - Possesses a demonstrated ability to nurture a team spirit and develop team participation.
  - Possesses a demonstrated tolerance to extreme foreign travel conditions.
  - Efficient with numerous computer programs including various CAD systems, Windows, Microsoft Office, Word, Excel, Outlook, Visio, Oracle, Growth Power, and various VHDL and C++ programming environments for embedded processors.
  - Possesses a demonstrated ability to apply engineering principles to create solutions in situations newly encountered, even without previous exposure to the problem at hand and regardless of the area of focus or engineering branch (electrical or mechanical).
- Education**
- Associate of Science degree from Catawba Valley Community College, Hickory, North Carolina. Graduated May, 2005 with a GPA of 3.5.
- Bachelors of Science in Electrical Engineering (BSEE) degree from the University of North Carolina at Charlotte, North Carolina. Graduated May, 2007 with a GPA of 3.4.
- Master of Science in Electrical Engineering (MSEE) degree from the University of North Carolina at Charlotte, North Carolina. Anticipated graduation May, 2009 with a GPA of 3.3.
- Accepted to the Doctor of Philosophy in Electrical Engineering (PhD EE) program at the University of North Carolina at Charlotte, North Carolina. Some course work completed.
- Relevant coursework includes power system analysis, electro-magnetic devices (transformer and motor theory), control system design, embedded systems and power electronics.
- Associations**
- Member of Eta Kappa Nu (HKN) Electrical and Computer Honor Society, Kappa Phi chapter at the University of North Carolina at Charlotte.
  - Member of Tau Beta Pi Engineering Honor Society, NC DELTA Chapter at the University of North Carolina at Charlotte.
  - Student member of the Institute of Electrical and Electronics Engineers (IEEE), University of North Carolina at Charlotte student branch.
  - Founding President of Charlotte Area Robotics club from August 2007 to May 2009. Charlotte Area Robotics is a club with a membership of 38 individuals from academia and industry in the Charlotte area.
- Work Experience**
- May 2007 – August 2007 *Electrical Engineering Intern Hand Held Products* Fort Mill, SC
- Investigate, test and recommend GPS equipment for use inventory control terminals.
  - Develop test procedures for testing GPRS modules and GPS receivers.
- August 2003 – March 2005 *Electrical Engineer Elmer's Products, Inc.* Statesville, NC
- Transfer of existing production to Chinese manufacturers (\$5M savings first year).
  - Approval of injection mold tooling and alternate component selection by Chinese.
  - Design development and resolution of mechanical press design deficiencies.
  - Maintenance of UL files and other agency approvals.
  - Development of approval documentation processes.
  - Creation and maintenance of electric stapler and pencil sharpener designs.
  - Support of manufacturing, marketing, and supply chain teams.

Work  
Experience  
(Continued)

June 2001 – August 2003 *General Manager Tar Heel Capital* Boone, NC

- Develop and execute plans to achieve quality, sales, and profit goals.
- Hire, train and develop personnel to deliver results above customer expectations.
- Operate and maintain the location such that customer satisfaction is maximized.
- Evaluate and monitor P&L statements to optimize cash flow and profit margin.
- Enforce policies and procedures, while fostering a pleasant work environment.

Sept 1999 – June 2001 *Sustaining/Manufacturing Engineer Interlogix* Hickory, NC

- Coordination of product family termination and assembly line disassembly.
- Scrap cost reduction through analysis and improved planning (\$500,000 savings).
- Inventory reduction through parts consolidation (\$125,000 savings).
- Facility space requirement reduction (8,000 square feet) through improved product flow.
- Participation in ISO9000 implementation team.
- Maintenance of UL and other agency approvals on all existing and new products.
- Provide resolution to component or design problems on current production designs.
- Provide design changes to comply with approval agency requirements; including UL and FCC.
- Project manager for product improvement.
- Interface with customers and vendors to resolve problems or communicate specs.
- Recommend and implement corrective actions to reduce field failures.
- Generate assembly processes and setup new assembly lines.
- Improve production yield through process analysis.
- Reduce labor requirements through process improvements.
- Reduce production cost through design or process improvements.
- Generate Engineering Change Orders (ECOs).

Jan 1998 – Sept 1999 *Associate Engineer Interlogix* Hickory, NC

- Practical application of electronic principles to design or redesign electronic circuitry.
- Provide technical advice and training to production team.
- Evaluate manufacturers' specifications for the approval of components.
- Test and validation of designs to FCC, UL, and other approval agency requirements.
- Interface with customers to evaluate field related problems.
- Creation of prototype designs.
- Perform first article approval of proprietary components.
- Interface with the Oracle database development team as the engineering point of contact (Track Lead) and conduct training of the engineering department.
- Create and maintain schematic drawings.
- Participation in implementation of a Total Quality Management (TQM) program and quality improvement teams.

Sept 1996 - Jan 1998 *Engineering Lab Technician Interlogix* Hickory, NC

- Practical application of electronic principles to aid in the design or redesign electronic circuitry, including creation of prototype designs.
- Test and validation of designs to FCC, UL and other approval agency requirements.
- Creation and maintenance of schematic drawings and bills of materials.
- Troubleshoot design failures.