

Adrienne M. Fredericks

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Adrienne@RedgardenEngineering.com

EDUCATION	Northwestern University <i>Bachelor of Science in Industrial Engineering</i>	Evanston, IL 1993-1998
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PROFESSIONAL EXPERIENCE

Redgarden Engineering, LLC <i>Affiliate Manufacturing Engineer</i>	Louisville, CO 2010
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- Oversee and expedite prototype engineering builds for electronics assemblies
- Review electronics designs including PCB layouts for accuracy and manufacturability
- Schematic capture for assemblies
- Write & edit engineering documentation

Phase IV Engineering, Inc. <i>Manufacturing/Liaison Engineer</i>	Boulder, CO 2006-2009
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- Manufacturing liaison to product development teams. Contribute DFM input to product design. Develop project schedule for Manufacturing Engineering and provide build time estimates to Production Scheduler.
- Perform DFM analysis of Printed Circuit Board (PCB) design. Research and develop Component Pad Layouts for critical components such as QFP and BGA based on product environmental requirements. Design PCB Fabrication and PCB Assembly Drawings. Analyze design to ensure Rohs Compliance as required.
- Develop assembly processes, create test and assembly instructions, train personnel and oversee assembly of RFID tags and readers. Incorporate In-Process and Final Inspections to ensure product complies with Product Requirements, IPC-A-610, IPC/WHMA-A-620 and applicable industry standards.
- Create Product Quality Plan using ANSI/ASQ Z1.4. Evaluate engineering drawings to select inspection criteria for Incoming Inspection. Disposition Non-Conforming Materials. Perform and document First Article Inspection using AS9102.
- Develop and perform prototype prove-out testing based on Product Requirements, MIL-STD-810 and IEC60529.
- Build prototype cables and determine tooling requirements. Create cable assembly instructions.
- Review and approve design documentation packages for dimensional tolerances, overall accuracy and completeness.
- Prepare Manufacturing Engineering and Production cost estimates for Sales quote packages.

<i>Buyer/Manufacturing Support</i>	2005-2006
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- Manage raw materials inventory using MS Access based MRP system and Kanban card system.
- Initiate work orders upon receipt of customer order. Maintain schedule of all active orders including estimated completion date.
- Prepare Purchase Orders, receive incoming raw materials, stock production kits and ship finished goods. Prepare consigned Printed Circuit Board components kits for Contract Manufacturer.
- Research and develop new suppliers. Establish and maintain good supplier relationships.
- Perform design research as instructed by Manufacturing Engineering.

<i>Administrative Assistant</i>	2003-2005
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SPECIAL SKILLS	Lean Manufacturing Training, Sn/Pb Soldering Training, ESD Trainer, MS Office including Project, Access and Visio.
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