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Objective: Seeking employment as an Electrical-Electronics Engineering Manager.

Education:

- 1986 Wayne State University, Detroit, MI
MCCS (Master's in Computer Control Systems) post-graduate work only
- 1985 Wayne State University, Detroit, MI
BSEE (Bachelors in Electrical Engineering)
- 1983 Henry Ford Community College, Dearborn, MI
ASEET (Associates In Electrical/Electronics Technology)

Professional experience:

Sumitomo Electric Wiring Systems, Dearborn, MI

11/2004 to present Electronics Manager

- * Responsible for new Body Control Module development in the North America market.
- * Managing Overseas Japanese Engineering resources in developing new Body Control module.
- * Responsible for the creation of Business Pursuit and Marketing Strategy Plan of new Body Control module development.
- * Creating an Electronic Competitive Intelligence System to manage Competitor Product Data and Specifications using Open Source software and VBA Programming language technologies.
- * Responsible for Team Building between Japanese Engineering and North America Sumitomo groups (Components, Wiring, and Electronics Engineering)
- * Developed an Emerging Technologies Road Map used to Sumitomo's Electrical and Electronics Architecture to potential North America customers.
- * Wrote Technology Investigation and Development of Emerging Technologies Budgetary Proposal for Sumitomo Electric Wiring Systems and University of Michigan-Dearborn Joint Venture.

Usui International Corporation, Plymouth, MI

4/2003 to 10/2004 Electrical Engineering Supervisor

- * Established and managed the Electronics Lab for in house electrical/electronics for Fan-Clutch product development business.
- * Managed the electrical/electronics development of the electronically controlled fan clutch for the 2006 Ford Explorer program.
- * Supervised EMC test plans for wiring harness/speed sensor electronics interface of electronically controlled fan clutch.
- * Supervised EMC tests for electronically controlled fan clutch with local EMC testing facility.
- * Writing component and system specifications for electronic controlled fan drive.

- * Mentored department mechanical engineers on Electrical/Electronics design & development techniques and best practices.
- * Supervisor of 5 direct reports (3 engineers and 2 technicians) who design and develop, and test electrical/electronics of electronic controlled fan clutch.
- * Applied principles and techniques of electrical engineering to accomplish department goals.
- * Saved \$5.087 million dollars in product piece cost of an electrical jumper harness for electronically controlled fan clutch within 1 year.
- * Managed day-to-day activities using New Product Development "V" Model.

Visteon Corporation, Dearborn, MI

1/2002 to 4/2003 Lead Electronics Systems Engineer

- * Develop advanced electronics concept design for an exterior LED Headlamp
- * Conduct tradeoff studies of various DC-DC converters (Buck, Boost, Flyback, and Buck Boost)
- * Develop flex-circuit substrate for locating and mounting of high light output emitters/LEDs
- * Develop prototype circuit boards for DC-DC converters
- * Understand LED electrical/optical performance curves
- * Understand Pulse-width modulation (PWM) and current mirroring circuit schemes for managing RMS currents for LED switching strategies
- * Using DxDesigner for schematic capturing and printed circuit-board development of LED flex-circuit substrate and DC-DC converter designs
- * Project Manager for LED driver circuits and Adaptive Forward Light System Module development

11/2000 to 1/2002 Electronics Systems Engineer

- * Define and developing applications to standardize and automate System Design process.
- * Develop advance conceptual electronic module designs for costing.
- * Work with the 42V group and Sumitomo in identifying opportunities for joint development of components to be displayed at engineering consortiums and conferences.
- * Optimize sub-system designs and system architecture.
- * Lead Engineer developing a 42V Smart Power Distribution Box.
- * Lead Engineer developing a Smart Junction Box Concepts for Automotive OEMs.
- * Systems modeling techniques using Excel VBA, LabView, and Python programming languages
- * EDA tools knowledge consist of using PowerView, TransCable, PSpice, Electronic Workbench, and OrCad for electrical/electronics circuit design (analog, digital, and microcontroller) & analysis.
- * Hands-On programming language knowledge using Python, Visual Basic for Applications (VBA), Visual Basic, and C.
- * Hands-On knowledge of Prototype Printed Circuit Board Development process.

DaimlerChrysler Corporation (Chrysler Corporation) Detroit, MI

10/98-10/2000 Lead Software Test Engineer

- * Software Test and Validation of the 2002 KJ (Cherokee) Body Controller Module.
- * Developing the Next Generation of Automated Module Tester System (AMTS-2).
- * Developed the Automated Test Generation (ATG) process for the AMTS2
- * Developed AMTS-2 specifications, test procedures & plans for validating Automotive Electronic Modules.
- * Created Test Database using MS Access -Query and developed a Test Engine via Excel VBA
- * Provided Educational Training & Presentations on Automated Testing Technology to engineers and managers.

- * Established Timing for implementing ATG/AMTS-2 development project
- * Hands - On modeling knowledge using CASE Tool Statemate Magnum.

DaimlerChrysler Corporation Detroit, MI

1/98-9/98 Lead Product Engineer

- * Worked on developing the KJ 2002 Body Controller Module with specifications.
- * Trained 4 engineers and 1 Senior Engineer on Systems Engineering and Project Management Techniques for KJ 2002 Body Controller Module Development.
 - Developed Diagnostics, Body Controller Module Bench Tester Quote Packages and Engineering Specifications for the KJ 2002 Body Controller Module.
 - Interior Lighting Subsystem Engineer responsible for electrical architecture development and capturing functional requirements for Instrument Cluster and Passenger Illumination feature.
 - Developed Subsystem Test Plan for validating Instrument-Panel (IP) Illumination using vehicle bus communication protocol (J1850) and the Body Controller Module.
 - Coordinated IP Lighting Studies for evaluating illumination patterns using Functional Objective customer wants list.

Chrysler Corporation Detroit, MI

5/97- 12/97 Product Engineer

- * Program Manager for ZJ/ZG (Left-hand/Right-hand Drive Grand Cherokees) Body Controller Module Systems for 96-98 Model Years.
- * I have working knowledge of J1850 Bus Protocol for 99 Grand Cherokees (WJ Program).
- * I have subsystem design knowledge of Vehicle Interior Electronic Systems.
- * I've also trained summer intern students on Chrysler's Product Development Process and EE Systems Design Methodology.

Chrysler Corporation Detroit, MI

10/94- 5/97 Product Engineer

- * Responsible for the design and development of Ultra-light Sensors, Body Controller Modules, Vehicle Disarm Switches, and Interior Lighting Systems for ZJ/WJ Vehicles.
- * EMC (Electromagnetic Compatibility) Coordinator responsible for maintaining EMI (Electromagnetic Interference) integrity of Body Controller Module Systems.

APX International (Contract w/Chrysler Corporation) Detroit, MI

1/92-10/94 Product Engineer

- * Responsible for the design and development of Ultra-light Sensors, Body Controller Modules, Vehicle Disarm Switches, and Interior Lighting Systems for ZJ/WJ Vehicles.
- * EMC (Electromagnetic Compatibility) Coordinator responsible for maintaining EMI (Electromagnetic Interference) integrity of Body Controller Module Systems.

General Motors Flint, MI

12/90-7/91 Project Engineer

- * Developed and implemented a cost savings process which saved the EE Department 10 million dollars.
- * Provided technical support in generating Cost Reduction ideas to engineers on electromechanical components and electronic modules using DFM (Design For Manufacturing) techniques.
- * Acted as Liaison Engineer to Supplier Management Department.

4/89 -12/90 Project Engineer

- * Worked on wiring and packaging electrical/electronic components and systems for 90 CH/91H (Buick -Oldsmobile-Pontiac) vehicles.
- * Interfaced with subsystem Body Structures and Reliability/Test Engineers on design, development, and testing of electrical/electronic components and modules.
- * Root Cause Engineer working on resolving product changes for EE Design Engineering.
- * Acted as Resident Engineering for Product Engineering and Manufacturing.

**General Motors (Willow Assembly Plant) Ypsilanti, MI
2/86 -4/89 Plant Engineer**

- * Developed plant/robotics automation and Industrial Electrical/Electronic Controls used for Conveyors, Glass Installation, Welding, and Wheel Alignment Systems for the Assembly of Automobiles.

Publications:

- * Technical Book published through McGraw Hill Book Publishing, Inc. entitled Lego Mindstorms Mechatronics released in Autumn 2003
- * Book for published through McGraw Hill Book Publishing, Inc. entitled Lego Mindstorms Interfacing released in Autumn 2002
- * Internet Robotics Column for Society for Amateur Scientists (SAS), ongoing, since October 2002
- * Paper published for ASEE, presented at Annual Conference in Nashville, TN June, 2003 entitled Developing Laboratory Based Electronics Software Projects Using a Lego Mindstorms Programmable Brick.
- * Paper published for ASEE/NCS Spring Conference, Western Michigan University, April 2004 entitled NanoMuscles, Paper Toys, and Robots: Teaching Mechatronics Basics through Animatronics.
- * "Using a Black Box Test Model to Validate Automotive ECU Software" (Short Summary), 1st DaimlerChrysler Quality Symposium, Oct.16, 2000
- * "Using a Black Box Test Model to Validate Automotive ECU Software" (Full text), Automotive Test Report, March 2000
- * Give spreadsheet GUIs a touch of automation", Personal Engineering Magazine, May, 1998
- * Contributing Writer for Nuts & Volts Magazine, The Solderless Breadbox Column 10/92 -9/94
- * Contributing Writer for Nuts & Volts Magazine: Feature Articles

Additional professional activities:

Detroit Board of Education Technical Consultant

- * Created Engineering Curriculum using self developed hardware, software, and LEGO Mindstorms Robotics Invention System and the Basic Stamp (PIC 16C54 Microcontroller Chip)
- * Served as a Technical Advisory Committee member for Breithaupt Vocational Technical School
- * Lawrence Technology University Industry Advisory Board Member
- * Adjunct Professor of Electrical Engineering Department: Lawrence Technological University
- * IEEE Section Meeting Speaker October 2003 and March 2004
- * Virtual Lecturer for Wichita State University, December 2003
- * Robofest Lecturer for Lawrence Technological University, December 2003
- * Have taken technical and business classes for continual Career Development
- * Founder of MaDon Research: Small Business involved with integrating industry practices to engineering education through robotics and mechatronics
- * Webmaster for <http://www.family-science.net/>

Professional memberships:

American Society for Engineering Education
Project Management Institute (PMI)

Community activities:

Technical Advisor to: Robofest Chairman (Dr. Chan-Gin Jung)
Curriculum and Instruction Director of Garden City Public
Schools (Dr. Susan Collins)
Program Director: DAPCEP - DaimlerChrysler Wonders of Automotive Engineering
Program 10/94 - 10/00

World Of Work Coordinator - DaimlerChrysler Corporation 10/94-10/00

- * Worked with several elementary, middle school, and high schools on developing pre-engineering programs. I was Program Director for the Wonders of Automotive Engineering Weekend Enrichment curriculum. Program objective was to expose minority students to Automotive Engineering careers through "hands-on" projects, and lab demonstrations.
- * Enlisted DaimlerChrysler employees to assist in World Of Work program.
- * Developed weekly Robotics curriculum for 5th & 6th graders at George Ford Elementary School.

Hobbies:

- * Designing and building electronics for robots, educational toys, and smart devices
- * Reading/Writing Tech Articles and Books
- * Writing Software Applications
- * Working with children (including my 3 kids) on math, science, and Arts & Crafts projects.
- * Cardiovascular Exercising and Weight Training

Interests and activities:

- * Researching topics in traditional alternative electronics design/analysis methods
- * Research in Engineering Curriculum
- * Developing engineering processes & tools for EDA and CAE applications
- * Research in engineering prototype tools and methods

Volunteer experience:

- * Coordinated a Tiger Cubs Engineering Outing at DaimlerChrysler Jeep Truck Engineering Facility
- * Taught a pre - engineering class at Temple Of Faith Church
- * Guest Speaker at DAPCEPs Annual Outreach Workshops