

MICHAEL STIEDLE

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current resume: www.mrproe.com/michael.doc

CAREER SUMMARY:

- Active Secret Clearance obtained Sept 2008
- Multiple industry design experience (Aircraft Modifications & Seat Design, Military Satellites, Helicopters, Heavy Land Vehicles & Unmanned Submersibles (ROV's & POV's), Telecomm, R&D, Consumer Products & Medical Devices)
- Heavy Truck & Chassis Structural Design, Small Plastic & Sheet Metal Mechanisms, Hydraulic & Pneumatic Actuators, Levers and Moving Parts, Electro-Mechanical Packaging, Sheet Metal Designs, Plastic Injection Molds, Molded Plastic Parts, & Die Casting Design
- Project Management, Vendor communication and Selection
- System Integrations & Designs; GD&T, Checking, Calculate, analyze, and prepare engineering data; 2D Drawings: Installation, Large & Small Assembly & Part; Interacting and receiving input from Engineers and other Designers; ECN & ECO creation; Generate Bill of Materials necessary to package and deliver
- Computer literate in Microsoft products: Word, Excel, PowerPoint, and Outlook

CAD SOFTWARE:

PRO/E (releases 13, 2001, WILDFIRE 1.0, WILDFIRE 2.0, WILDFIRE 3.0) 38,000 hours

AUTOCAD -9,000 hrs

SOLID DESIGNER (HP-ME30/10) -6,000 hrs

SOLIDWORKS -2,000 hrs

CADKEY -2,000 hrs

SDRC-IDEAS -1,000 hrs

PROFESSIONAL EXPERIENCE:

GENERAL DYNAMICS Robotics Systems, Westminster, Maryland April 2009 to July 2009 (3 month contract)

PRO/E Wildfire 3.0 & Windchill 8 & AutoCAD - Designer/Drafter, AUTONOMOUS NAVIGATION SYSTEMS – production readying drawings and documentation with GD&T & current format; PCB drawings and schematics

GE ENERGY, Houston, Texas

Sept 2008 to February 2009

(6 month contract)

AutoCAD

Quality Engineer Checker, TURBINE ENGINE POWER GENERATION PLANTS - EM Packaging drawings and documentation with GD&T

FAIRWAY MEDICAL TECHNOLOGIES, Houston, Texas

Apr 2008 to July 2008

(3 month contract)

SOLIDWORKS 8.0 - Electro-Mechanical Designer - MEDICAL DEVICE R&D COMPANY

Automated actuator design, Plastic Parts Design, Injection Molded Parts, Research & Design of medical devices such as: head trauma cool pack, heart monitoring device, Electro-Mechanical packaging sleep apnea device, surgical suturing device, chiropractic tool & Breast cancer research machine

LOCKHEED MARTIN, Syracuse, New York

Feb 2008 to Apr 2008 (3 month contract)

and Jan 2000 to Aug 2000 (6 month contract)

PRO/E Wildfire 2.0 & Intralink 3.3 - Structural Designer - NAVAL ELECTRONICS & SURVEILLANCE SYSTEMS (NES&S)

Interim Clearance to **Active Secret Clearance**: MEADS program: US, Germany & Italy joint effort - Heavy Truck Mounted Radar Design & Architecture & Packaging; Pneumatic/Hydraulic Actuated Stabilizing feet design

DELL COMPUTERS, Round Rock, Texas

Jun 2007 to Feb 2008

(9 month contract)

PRO/E Wildfire 3.0 & Windchill 8 & AutoCAD - Electro-Mechanical Designer - BUSINESS CLASS ENTERPRISE BLADE SERVERS

Injection molded plastic computer parts design, E/M Packaging, sheet metal housing design, and documentation packages with GD&T

BAE SYSTEMS, Santa Clara, California

Apr 2007 to Jun 2007

(3 month contract)

PRO/E Wildfire 2.0 & Intralink 3.3 - Vehicle Packaging Architect - HEAVY MILITARY LAND VEHICLES

Vehicle Packaging Architect for next generation military vehicles: Packaging/Layout of Vehicle Systems for the Infantry Carrier IPT

JAMCO AMERICA, Everett, Washington

May 2006 to Apr 2007

(6 month contract)

PRO/E Wildfire 2.0 & Intralink 3.3 - Electro-Mechanical Designer - AIRCRAFT MODIFICATION COMPANY

Electrical Systems Packaging & Mechanical Packaging of aircraft components; A service provider of design for Boeing including: 747 VIP aircraft for (JAG) Japanese Government (like Air Force One) a Commercial aircraft interior structural reconfiguration and modifications project including: intercostals, floor panels, machine parts and additional seat tracks installation, Installation tooling, Floor panel modifications, Lavatory and other monument installations, package documentation with GD&T. (Research using BOEING engineering (my Boeing fleet), Part lists, top Collector drawings). (B787) Boeing 787 Dream Liner: Mechanical design and detailing for the design of B787 Bulkhead & Flight Deck Door Project: structure and interior components including: bulkhead design: all large assembly top level drawings, machine parts, door post components, dead bolt and ballistic blankets and many other bulkhead components, all designs and documentation packages with GD&T

ACCRETECH, Austin, Texas

Dec 2005 to May 2006

(4 wk contract)

PRO/E Wildfire 2.0 & Intralink 3.3 - Electro-Mechanical Designer - SEMI-CONDUCTOR BUSINESS

Electronic & Mechanical Packaging of Clean room compatible machine part designs incorporated into a newly designed first time ever pneumatic actuator driven wafer inspection station, Sheet metal housed cabinet to be a desktop version and later re-designed to go at the end of the "making of an interated circuit" machine

TRANE / AMERICAN STANDARD INC., Tyler, Texas May 2005 to Nov 2005 (6 month contract)
 PRO/E Wildfire 2.0 & Intralink 3.3 - Mechanical Designer - RESIDENTIAL AIR CONDITIONERS AND REFRIGERATION EQUIPMENT
 Pro-Piping Packaging of coil design and routing of tubing Large Sheet metal enclosures design and fabrication. Design and development and conversion of previous product line into new set of coils for new 13 Seer standard (A-style and Slanted) and Modifications per Engineering redlines for Change Notices, and documentation packages with GD&T

MOTOROLA, Fort Worth, Texas Jun 2004 to Apr 2005 (3 month contract)
 PRO/E Wildfire 2.0 & Intralink - Electro-Mechanical Packaging/Designer - CELLULAR BASE STATION/TOWER COMMUNICATIONS EQUIP.
 6-Sigma, Rack Mount equipment design, layout & packaging of a (16) multi-layer high-speed bussed PCB/Backplane, circuit card design and Library elements database capture, and E-M Packaging. EE and ME team Interface and collaboration to define over 8000 Electro-Mechanical Packaged elements; ECAD interface using Mentor Graphics (multiple iterations). Die Cast Aluminum Heat Sink Design for same board, sheet metal brackets; EMI/RFI and safety compliant; documentation packages with GD&T for XMI KDDI (Japanese customer)

WEBER AIRCRAFT LP, Gainesville, Texas Mar 2004 to Jun 2004 (3 month contract)
 PRO/E Wildfire & Intralink - Mechanical Designer - R&D AIRCRAFT SEATING & INTERIOR COMPONENTS
 Packaging/Wiring of Aircraft Electronics; Pro-Surface: Plastic bezels for seat backs, Electronic Packaging LCD monitors, cell phone pockets and a cosmetic mirror and a coat rack hook. Injection Molded Plastic and sheet metal piece part design, performed hand calculated stress and tolerance analyses, drawing packages with GD&T, prototype piece part builds, design reviews with manufacturing, build up and evaluation of prototype assemblies of seats for client testing for Boeing 7E7/Airbus A380, Delta, United, AA, Singapore Air

LOCKHEED MARTIN, Orlando, Florida Feb 2004 to Mar 2004 (3 month contract)
 PRO/E 2001 & Intralink - Electro-Mechanical Packaging Designer - MISSILES & FIRE CONTROL DIVISION:
 Comanche & Apache Helicopter Projects: Collaborated with Mechanical & Electrical Engineers & Laboratory Technicians to reverse-engineer Electrical & Electronic Testing systems for aircraft & test equipment of aircraft related systems. Product design of Sheet Metal enclosures (including Pressure Vessel Junction Boxes, Hydraulic Manifolds) and electronics packaging (Piping & Cabling of Lights, Sensors, Switches, Optical Encoders, PEMS, Fans, PWB's etc.) and all 2D Drawing Packages & ECO generation

RAYTHEON, Santa Barbara, California Jan 2003 to Feb 2004 (6 month contract)
 PRO/E 2001 & Intralink - Electro-Mechanical Designer / Checker - SPACE & AIRBORNE REMOTE SENSING DIVISION, (SBRS)
 Military Satellites, JAMI & VIIRS Projects: Modular Integrations of Remote Satellites and Sensing Equipment: Opto-Mechanical, Electronics, Systems and Ground Support Equipment EDU and Production Design and 2D Drawings Packages using GD&T: Honeycomb Structures & Panels, Optical Lens Mounts and Latch Assembly J-Box Design. Design for Manufacturing Practices to DOD-STD 100D, Mil specs, ASME Y14.100, and GD&T per ASME Y14.5M-1994 & 1982 standards with Tolerance and Failure Analysis studies of MDD (Minimally Dimensioned Drawings), ECO's & Specifications per company S.O.P. and Sherpa PDM release approving cycle (checking completed layouts, models, drawings for clarity, completeness, conformity to military contracts, standards, procedures, specifications, and all company standards and procedures as well as accuracy of calculations and dimensioning by, verifying the fit, form and function of all electrical, optical and/or mechanical designs; likewise identifying design errors, omissions, and other deficiencies, and recommending revision and/or improvements in design layout to the responsible engineers and/or designers) data management with FileMaker Pro

GENERAL DYNAMICS, Woodbridge, Virginia Apr 2002 to Oct 2002 and Aug 1998 to July 1999 (6 month contract)
 PRO/E 2000i² & Intralink - Electro-Mechanical Piping Designer - LAND SYSTEMS DIVISION - Advanced Amphibious Assault Vehicle (AAAV) First ever Heavy Military Land Vehicles joint Marine Corps and Civilian Design Effort. Pro-Piping, Design for Manufacturing Practices & 2D Drawing Packages using DOD-STD 100D, Mil specs, ASME Y14.100, GD&T per ASME Y14.5M-1994 & 1982.
 Auxiliary IPT: Pro-Piping / Line Routings: Hydraulics & Fire Suppression System, Manual Pull Cables, NBC, ECS, SHS Systems & Mechanical Sheet Metal Design: Mechanisms, Linkages, support Brackets, ensuring the integration and designs meet Environmental and Human Factors requirements for acoustic, shock and NBC; Hydraulic Actuation of Front/Rear Skids
 Engine IPT: Pro-Piping /Line Routing: Engine Fuel & Coolant Systems & Plastic and Sheet Metal Design: Brackets & Parts for sub systems. Performing Modular Integration, Mechanical Packaging & Design; APU Packaging (Auxiliary Power Unit)

LOCKHEED MARTIN, Riviera Beach, Florida Aug 2001 to Feb 2002 (3 month contract)
 PRO/E 2000i² & Intralink - Electro-Mechanical Packaging Designer - Under-Sea Systems of Perry Technologies & Unmanned Submersibles (ROV's & POV's) Underwater Optical, Robotic, Remotely Operated Vehicles; Tether Track alignment (Optical Umbilical Cord) guiding system in/out from vehicle; automatic feed system and tensioning; Electro-Mechanical Components Packaging; RF, EMI/EMC, NEBS, ETSI Rack & Stack Consoles or Panels (control panels for ROV or ROP), ensuring the integration and designs meet Environmental and Human Factors requirements, Product design of Small Mechanisms, Hydraulic Actuation/Actuating Parts Design, Gears, Rollers, Chain Drives, Sheet Metal enclosures (including Pressure Vessel Junction Boxes, Hydraulic Manifolds) and electronics packaging (Piping & Cabling of Lights, Sensors, Switches, Optical Encoders, PEMS, Fans, PWB's etc.) and all 2D Drawing Packages with GD&T & ECO generation

CISCO SYSTEMS, INC., Austin, Texas Aug 2000 to Aug 2001 (12 month contract)
 PRO/E 2000i² & Intralink Admin, AutoCAD, SDRC - Electro-Mechanical Designer - Router, Telecommunications & DSL Equipment
 Provide Electronic/Electrical Packaging: Delivering RF, EMI, NEBS, ETSI, GR10-89, GR63 compliant design of high-speed bus Telecomm & Internet Solutions/Service provider access market; Design for Mfg Practices & 2D Drawing Packages; ProE Mentor to Student on DSL R&D Mechanical Team. Rack & Stack panels: DSL; PCB's & Back planes, board level micro-electronics, connectors & components; Sheet Metal Housings, Circuit Card Design (Board component placement and layout) and Rack/Panel Modular Integration Design (Sheet metal chassis

enclosure designs and E/M Packaging: 19" & 23" Rack & Stack DSL (Digital Subscriber Line) Panel Design) as well as environmental, shock and vibrate testing conditions; EMI shielding and containment in Fan Trays (forced-air cooling fan system design); Map/Skeleton Parts & Layout, Large Assembly Structure & Design of cabinets and chassis; ECO generation per company S.O.P.; minor ECO fixes utilizing SDRC

LOCKHEED MARTIN, Syracuse, New York Jan 2000 to Aug 2000 (3 month contract)

PRO/E 20 & PDM - Electro-Mechanical Designer - NAVAL ELECTRONICS & SURVEILLANCE SYSTEMS (NES&S): Ocean, Radar & Sensors Div. Mentored engineers on ProE to achieve a joint problem solutions on advanced complex tasks at component or subsystem level: (E/M Packaging) Sonar Compliant RF Modulated Inter-cooled Integration of Rack & Stack Panel Design (Submarine Use) (10g load, inner-cooled system with cold plate radiators (non-fanned cooling)) PCB's & Back planes, board level micro-electronics, connectors & components; Sheet metal substructures design & 2D Drawing Packages using GD&T for Universally Sold Radar System and Decoy Project; SDRC Conversion

SPIRENT COMMUNICATIONS, HEKIMIAN DIVISION, Rockville, Maryland July 1999 to Jan 2000 (3 month contract)

PRO/E 2000i & PDM - Electro-Mechanical Designer - Telecommunications Access & Testing Equipment Sold to Phone Service Providers NEBS & ETSI compliant, EMI containment, Modular Integration & Design of 19" and 23" Rack & Stack DSL (Digital Subscriber Line) Electronic & Mechanical Packaging Panel Design Test Systems per RF, EMI, NEBS, ETSI, GR10-89, GR63 codes in Cards, PCB's & Back planes, board level micro-electronics, connectors & components; Sheet Metal Housings, Circuit Card Design, Plastic and Sheet Metal design; 3 New Products Designed & 2D full-up Drawing Packages (level 3)

GENERAL ELECTRIC, Salem/Roanoke, Virginia Apr 1998 to Aug 1998 (3 month contract)

PRO/E 19 - Electro-Mechanical Designer - Electrical AC/DC Industrial Controls and Power Conversion Equipment E/M Packaging, Layout, Design and Modular Integration of completed system: Floor: Assembly, Retro-Fitting & Re-design; sheet metal, plastic, machined part creation and design with 2D Drawing Package documentation with GD&T & ECO generation per company S.O.P.

STEELCASE, INC., C.D.C., Grand Rapids, Michigan Aug 1997 to Apr 1998 (3 month contract)

PRO/E 18 & PDM - Mechanical Designer - Office Furniture and Modular Office Systems Sheet metal brackets, Plastic parts design & Table Top Castings. Design for Manufacturing; full GD&T on all drawing packages

VICKERS, INC., Omaha, Nebraska Feb 1997 to July 1997 (3 month contract)

PRO/E 16 - Mechanical Designer - Large Hydraulic Pump Bodies supplied to John Deere, Case, Caterpillar, Volvo and Peterbilt Surfaces & 2D Drawing Packages for Castings & Forgings: Initial Start body and Secondary Machining Designs

CINCINNATI MILACRON, Cincinnati, Ohio Oct 1996 to Feb 1997 (3 month contract)

ProE 16 & 17 & PDM - Mechanical Designer Viking Grinding Machine Project: Sheet Metal Parts, Small Mechanisms, 2D Drawing Packages & documentation with GD&T

SCHLUMBERGER, Owenton, Kentucky Aug 1995 to Oct 1996 (Direct)

ProE 13-16 & PDM - Mechanical Designer - GAS METERING & REGULATOR DIVISION Castings & Injection Molded Plastic Part Design, Small Mechanisms, Worm Gear Design

COLUMBIA INDUSTRIES, San Antonio, Texas Aug 1992 to May 1995 (Direct)

Product Designer - HP-ME30/10 Additional info on request

SUNBEAM Jan 1991 to July 1992 (Direct)

Product Designer - HP-ME30/10, AutoCAD 10, CADkey Additional info on request

CATAPHOTE, INC. July 1989 to Jan 1991 (Direct)

Designer / Draftsman - AutoCAD 9.0 Additional info on request

SCIENTIFIC INDUSTRIAL DEVELOPMENT, INC. (S.I.D. Inc.) June 1988 to July 1989 (Direct)

Designer / Draftsman - AutoCAD 2.52- AutoCAD 9.0 Additional info on request

EDUCATION:

BSME – Equivalent: Engineering degree has not been completed yet. It is my desire to eventually finish.

GD&T Certification 1998 in "Fundamentals of GD&T" and "How to Measure GD&T"

PTC Certified Training 1997 ProE Large Assembly Maintenance, ProE Sheet Metal

University of Kentucky 1996 Mechanical Engineering Studies

PTC Certified Training Center 1996 ProE Advanced Assembly & Design

PTC Certified Training Center 1995 ProE Basic Design

HP Training Center, Seattle, WA HP-ME30 Solid Modeler Course

Hinds Community College 1988 AAS Degree Computer Aided Drafting & Design

Holmes Community College 1986 AAS Degree Computer Technology with Emphasis in Data Processing

Search Words: Pro Engineer, Pro E, Proe, Pro/E, ProE, Proe, proe, pro-e, Pro -E, Solidworks, Solid Works, Autocad