6701 Osteen Rd. New Port Richey, FL 34653 • 727.264.6331 • williamhalversen@live.com

portfolio - personally designed & developed: http://3d.paradigm-synergy.info

Objective: Mechanical Engineering CAD Designer resume page 1 of 5

Dear Human Resource Manager,

In addition to CAD designing engines for Ford , I have worked in various capacities, from supervision to teaching. The enclosed resume summarizes my education, skills, and work experience. Some of my accomplishments include:

- Ford Motorsport performance Intake Manifold using calculus based DUCT software and parametric solid CAD
- Presented new engine concepts to Ford Engine Division V.P.
- Facilitated brainstorming to develop Ford departmental CAD software procedures
- Optimized method for design clearance to body hood sheet metal at Ford engine
- Started 3D Drafting Club, elected president at P-HCC
- Brain Bowl Team member & leader at P-HCC, team placed 3rd at State
- Outstanding Student Leader P-HCC Felicia Barker Award

In the last few years, I served as caregiver first to my father, then to my mother, through their terminal illnesses. During this difficult period, I kept my work skills updated by obtaining an AA degree with a Drafting Technology concentration. Independently studying computer hardware, operating systems, and web design resulted in building a computer, loading a dual-boot configuration of Windows with Red Hat Enterprise Linux, and designing and developing a personal portfolio website. Additionally, subscribing to NASA TechBriefs, Design News, and actively participating in industry news groups, maintains my knowledge of the latest technology. Lately , I have designed independent contract projects in CAD . My interests include design and construction of speaker crossover electrical circuits. Combining my extensive experience with my proven ability to quickly learn and apply new technical skills, I would be an asset to your team.

Regards,

William Halversen

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Objective: Mechanical Engineering CAD Designer resume page 2 of 5

SKILLS

CAD expertise:	Parametric Solid Modeling NURBS Surfacing Computervision CADDS 5 SDRC I-DEAS AutoCAD & AutoLISP SolidWorks Catia Siemens NX (UniGraphics) PTC Creo (Wildfire ; Pro/ENGINEER)
Design capabilities:	Concept Sketching Descriptive Geometry Design for Assembly (DFA) Design for Manufacturing (DFM) Geometric Dimensioning and Tolerancing (GD&T) ASME Y14.5
Part categories:	Sheet metal stampings Machined metal Cast iron Die cast aluminum Injection molded plastic
Software knowledge:	Windows, UNIX, Red Hat Enterprise Linux MS Office Suite: Word, Excel, Access, PowerPoint BASIC, FORTRAN, C++ HTML, css, javaScript, php Photoshop, InDesign, FontForge
Business abilities:	Cash Accounting Process Improvement Leadership Supervision
Special skills:	Creative Thinking Tutoring

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Objective: Mechanical Engineering CAD Designer resume page 3 of 5

EXPERIENCE

Recent work includes:

CAD Contracting for independent projects in the Tampa Bay area, FL; Pasco-Hernando Community College, New Port Richey, FL three years **: Graphic Design & computer systems** in the Student Activities Dept; **Lab aide** in Science Dept; **Teacher's aide** in the Drafting Dept. – Developed and Presented CAD II lab lectures for AutoCAD solid modeling; **Family caregiver** (primary) to mother due to cancer; **Mobile DJ** in the Tampa Bay area, FL; **Owner / Operator Home Maintenance** in the Tampa Bay area, FL; **Family caregiver** (secondary) to my father due to strokes; **Supervisor** at One Stop Smog in Carmichael, CA; **Substitute Teacher** in Allen Park and Southgate, MI; **VAX Mainframe Computer Operator** at Mavricc Financial Services in Troy, MI.

1990 – 1998 Senior Engineering Designer – Ford Powertrain – Dearborn, MI

- Special Early Retirement 1998
- Designed major engine systems on 3D Solid Parametric CAD
- Concept sketched major engine systems, including Cylinder Heads
- Presented designs at weekly cross functional design team meetings with engineering and manufacturing
- Applying Geometric Dimensioning and Tolerancing (GD&T) ASME Y14.5M
- Tolerance stack ups
- CAD assembly data in Concurrent Assembly Mock Up (CAMU) PLM
- Directed detailers
- Output to rapid prototype 3D printing Stereo Lithography (STL)
- CAD data exchange to IGES, & STEP
- Liaised with vendors & suppliers

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Objective: Mechanical Engineering CAD Designer resume page 4 of 5

EXPERIENCE (continued)

1989 – 1990	 Automotive Engine Designer – Engineering Service Inc. – Southfield, MI Contracted on-site to Ford Powertrain – Dearborn, MI Designed engine components
1988 – 1989	 Automotive Designer – Douglas & Lomason – Farmington Hills, MI Designed seat track mechanism Human factors calculations & engineering of spring forces Designed ergonomic seat cushion Directed detailers Coordinated in – house prototype production Reviewed FMVSS testing results
1987 – 1988	 Automotive Body Mechanism Designer – Jubbu Designers – Plymouth, MI Door layout, including window regulator and rear – view mirror Exterior belt line plastic trim
1986 – 1987	Mechanical Drafter – ABC Packaging Machinery Corp. – Tarpon Springs, FL
1985 – 1986	Bartender – Innisbrook Golf Resort – Tarpon Springs, FL
1984	 Automotive Body Mechanism Designer - Jubbu Designers, Inc - Plymouth, MI Designed a Convertible Top Stack Mechanism Prototype Layout Designed door seal system aluminum extrusion and rubber gasket Packaged hydraulic actuator Coordinated shop production Liaised with Ford

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Objective: Mechanical Engineering CAD Designer resume page 5 of 5

EDUCATION

- 2004 2009 Pasco-Hernando Community College, New Port Richey, FL part time AA degree 2009 – Drafting & Design Technology *concentration*
- 1994 -1996 Wayne State University, Detroit, MI part-time Mechanical Engineering *curricula* attained senior level
- Synchronized Design & Development Mt. Clemens, MI part-time
 Certificates Computervision CADDS 4x: 2D, 3D, & NURBS Surfacing
- 1982 1984 Memphis State University, Memphis, TN full-time **Mechanical Engineering** *curricula* attained junior level
- 1980 1981 Henry Ford Community College Dearborn, MI full-timeDrafting & Pre-Engineering *curricula* attained sophomore level

Professional Development Classes:

Descriptive Geometry by Henry Ford Community College Geometric Dimensioning and Tolerancing (GD&T) ANSI Y14.5M by Ford Design For Manufacturing by Boothroyd & Dewhurst Design For Assembly by Boothroyd & Dewhurst Metrology & Gage R&R by Ford Manufacturing Processes - Cutting by Ford NC Tooling Overview by Ford Threaded Fasteners by Ford Engine Design by John B Heywood (MIT) by Ford Effective Listening by Ford Assertive Communication by Ford Achieving Win-Win Outcomes by Ford Team Oriented Problem Solving & 8 Disciplines by Ford Creative Decision Making by Ford Time Management by Franklin TimeQuest Small Business Start-up by Small Business Administration & SCORE Small Business Management by John King, WSU **Dale Carnegie Course** Leadership Development seminars by P-HCC