



David Tate
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 email: davidtate@keystrokedesigns.ca

David Tate

Objective

After extensive experience in various engineering disciplines, and a good working knowledge of Pro/ENGINEER and Catia v.5, I found a natural ability to teach others - lots of patience! – and develop new techniques and procedures, but I also realized a need to keep involved with project work that would constantly challenge my knowledge of CAD and the real world of design and manufacturing.

Background

In the days of the drawing board, a designer knew his tool and could spend maybe 90% of his time devoted to designing; today’s designers can be spending around 50% of their time just struggling with the software – my goal has been to optimize and automate as much as possible to reduce the frustration factor for the designer.

Personal: date of birth – 11 Oct 1951, hold British and Canadian passports, married with three boys.

I am certified as a Pro/ENGINEER Wildfire Level 1 Professional.
 See <http://www.keystrokedesigns.ca/portfolio.htm> for examples of work.

Skills

- Very familiar with Pro/ENGINEER since rev.13 – surface modeling; sheet metal; large assembly management; family-tables; Pro/INTRALINK;
- Catia v.5 - surface modeling; sheet metal.
- Microsoft Office products.
- Familiar with ANSI 14.5M, and GD&T.

Experience

Jan 12 – Nov 15 VECTOR TRUCK DESIGNS Kelowna, BC
Contract Designer

- Design and development (all components, detail and installation drawings) of Cummins ISBEEV, ISBe6 and ISL-G engine installations in Dennis Eagle class 8 truck chassis, for Penske Australia.
- Design and development (all components, detail and installation drawings) of Parker RunWise hybrid transmission installation with Cummins ISL engine in Dennis Eagle class 8 truck chassis, for Penske Australia.
- Design and development (all components, detail and installation drawings) of cab air ride suspension, Dennis Eagle class 8 truck chassis, for Penske Australia.
- Design of welding fixture for excavator hood.

Jan 12 – Jan 13 Peerless Trailers (McCoy) Penticton, BC
Permanent Designer

- Design and development of Pro/E modeling & drawing standards.
- Administration of Windchill (PDM) system.
- Design and development of Pro/E startparts (relations and parameters) to facilitate connection between Windchill and ERP system.

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Oct 10 – Jan 12 Pacific Rim Engineered Products Langley, BC
Contract/Permanent Designer

- Design and development drawworks, gearboxes, skids, transmissions.
- Development of Pro/E modeling standards.

Apr 10 – Sep 10 VECTOR TRUCK DESIGNS Kelowna, BC
Contract Designer

- Design and development of new front drive axle for heavy truck. Casting, machining.
- Design and development of auxiliary transmission oil pump redesign.
- Design and development of auxiliary transmission pump mounting optimization.
- Design and development of truck front and rear steer axles.

Oct 09 – Feb 10 OCEANWORKS INTERNATIONAL Burnaby, BC
Contract Designer

- Design and development of components for tooling fixtures for subsea components. Final assembly drawings.
- Design of component parts and procedures for salvage of damaged offshore oil pipelines in South China Sea. Pipe spools, clump weights (concrete and weldments).

Sep 09 – Aug 10 AXXESS INDUSTRIES Kelowna, BC
Contract Designer

- Design and development of injection-molded plastic housings for door-embedded electronic devices.

Oct 07 – Jan 09 PACIFIC RIM ENGINEERED PRODUCTS Langley, BC
Contract Designer

- Design and development of components for gearboxes and drawworks machinery: shafting, gearing, castings, fabrications, sheet metal.
- Re-design of hydraulic cylinder; conversion of many machined parts into lesser number of castings; design and development of transmission Test Stand.

Feb 06 – Aug 07 AMERICAN LAFRANCE Ladson, SC
Senior Designer

- Design and development of cab internal and external components: sheet metal body stampings, castings, weldments, hydraulic linkage systems, human ergonomics study.

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- Design and development of chassis steering and suspension layout, and detail components, for a tri-steer configuration.

Feb 05 – Nov 05 CREATIVE VEHICLE DESIGN Greenville, OH
Senior Designer

- Design and development of cab internal and external components: surfaces for hood, roofcap, overhead console, hood hinge mechanism, castings, weldments.

Oct 03 – Feb 05 ENGINEERING DESIGN CONSULTANTS Portland, OR
Senior Designer (contract) WESTERN STAR TRUCKS

- Design and development of cab internal and external components: body-in-white sheetmetal, fiberglass, castings. Surface modeling of dash, ducting, hood.

June 03 – Oct 03 UNION CITY BODY COMPANY Union City, IN
Senior Designer (contract)

- Design and development of cab internal and external components: dash, hood, hinges and mechanisms, driver seating position. Fibreglass, sheetmetal, weldments.

Aug 02 – June 03 ENGINEERING DESIGN CONSULTANTS Portland, OR
Senior Designer (contract) WESTERN STAR TRUCKS

- Design and development of cab internal and external components: body-in-white sheetmetal, fiberglass, castings.

Feb 02 – Aug 02 OCEANWORKS INTERNATIONAL N.Vancouver, BC
Senior Designer (contract)

- Design and development of marine equipment, pressurized rescue module, hard deep sea diving suit. Work included valving, piping, fabrications.

Feb 02 KEYSTROKE DESIGNS

Set up own contracting business – <http://www.keystrokedesigns.ca/>– and purchased own seat of Pro/ENGINEER software.

Jun 01 – Feb 02 WESTERN STAR TRUCKS INC Kelowna, BC
Senior Designer

- Design and development of cab internal and external components: body-in-white sheetmetal, fiberglass, systems development.

Jan 01 – Jun 01 QUESTAIR TECHNOLOGIES Burnaby, BC
Senior Designer

- Design and development of testing equipment for air purification machinery, including valve design, high-tolerance machining, much use of GD&T.
- Development of custom Engineering Design intranet.

Left to return to Western Star.

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- Equipment for logging & mining industries
- Government Ministry of Defence contract for design, development and detailing of military utility trailer. Work involved liaison with Ottawa, for overseeing of initial prototypes to approval stage of production.
- Also worked on structural detailing. Left to return to England.

Feb 81 - Jun 88 WESTERN STAR TRUCKS INC Kelowna, BC
Jan 86 - Jun 88

Project Designer

- In charge of a group of three, responsible for the design, development and introduction of a new electrical vehicle system incorporating:
 - multi-pin environmentally-sealed connectors
 - redesigned power distribution panels
 - overhead cab console
 - new wire coding system
 - return grounding system
- Also responsible for the development of the air braking systems.

Aug 84 - Dec 85

Group Leader

- Designing one-off requests from custom orders, maintaining parts lists.
- Supervising a team of four for the production engineering of electrical and air systems.

Oct 83 - Aug 84

Checker

- Checking and approving work packages leaving engineering.

Nov 81 - Oct 83

Illustrator/Technical Writer

- Drawing illustrations for the parts and service manuals.

Feb 81 - Nov 81

Draughtsman

- Responsible for production engineering of chassis-related areas (ie steering, suspension).

Sep 77 - May 80 FIELDEN ENGINEERS Sowerby Bridge, England

Designer/Draftsman

- Fork lift truck attachments, conveyor systems, air control systems, machining, fabrications, valving, air/electrical systems.

Oct 76 - Sep 77 CROSROL LTD Halifax, England

Designer/Draftsman

- Manufacturers of carding machines for the textile industry.

Jun 75 - May 76 ACRES MANITOBA Winnipeg, Manitoba

Draftsman

- Piping systems and layouts for hydro-electric generating stations.

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Feb 73 - May 75 CRAWFORD-SWIFT LTD Halifax, England

Designer/Draftsman

- Heavy machine tools, gearing, castings, machining.

Jul 70 - Feb 73 JAMES H. HEAL & Co Ltd Halifax, England

Apprentice Draftsman

- Textile testing equipment; sheet metal, machining, electronics.

Aug 68 - Jul 70 OXLEY-DEMPSTER LTD Elland, England

Apprentice

- Shop floor work: welding, plating, fitting, machining.

Education

1968-1972 CALDERDALE COLLEGE Halifax, England

- ONC (Ordinary National Certificate, Mech Eng.)

Interests

Music, song-writing, cars, swimming, squash, hiking, reading, computers, travel.

Further Education:

DFMEA Introduction & Clinic	OUC: Okanagan University College	21-Mar-00
General Safety and ISO Orientation	WST Training Dept	06-Dec-99
Geometric Dimensioning & Tolerancing 1	OUC: Okanagan University College	18-Nov-95
Geometric Dimensioning and Tolerancing 2	OUC: Okanagan University College	09-Dec-95
Geometric Dimensioning and Tolerancing 3	OUC: Okanagan University College	13-Jan-96
Leadership 1 - Communications	OUC: Okanagan University College	01-Nov-99
Leadership 1 - Conflict Resolution	OUC: Okanagan University College	21-Feb-00
Leadership 1 - Leadership & Team Building	OUC: Okanagan University College	13-Sep-99
Leadership 2 - Project Management	OUC: Okanagan University College	30-Aug-99
Precision Truck Selling Course III: Heavy Duty Mode	TMI: Truck Marketing Institute	10-Sep-00
Product Liability	Weinstein Associates	09-Jun-95
Software – Pro/ENGINEER	PTC	Dec-95
Regulation Overview- ADR	WST Engineering	20-Oct-00
Software - eMatrix Workflows (PCR/EDP)	Power Concepts	01-May-00
Software - eMatrix ECO Process - design	Power Concepts	19-May-00
Software - eMatrix Items/BoMs	Power Concepts	Apr-00

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Software - eMatrix Navigation	Power Concepts	26-Apr-00
Software - eMatrix Ph 1 Designer (Items & ECO)	WST Engineering	20-Sep-00
Software – Pro/E - System Admin/SuperUser	CadQuest	12-Jul-99
Software- eMatrix BOM AI & Navigation - Ph1	WST Engineering	08-Sep-00
Technical Orientation with Production Supervisors	WST Engineering	13-Jun-94
VisView Pro Demo/Intro	Engineering Animations Inc. (EAI)	28-Jan-00
WHMIS - Full	WST Training Dept	01-Feb-00