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Consulting/Work

Red Examples : See Step-by-Step Details document.

Public & Licensed Public Assets	2018	With T.Pringle & J.Dumont, we appear to be changing the nature of land market value in Anglo-Canadian law for the first time in 800+ years (England, 1235).	Real Estate, Assessed Value.	Real Estate, Tax Planning
Public & Licensed Public Assets	2017	**Identifying original (buried) river channel from research and a site visit.** Helping taxpayers and government avoid wasting $100-200,000 and $millions of dollars of future damage and additional $millions in liability at an industrial area during design for construction of flood control works. This was by recognizing from the constellation of clues (including surface rainfall run-off behaviour) presence of a hidden river channel buried ~100 years ago. Validated by civil engineers.	Real Estate, Public Spending	Insurance liabilities
Operations	2016	After two maintenance cycles, solving a 'wet cooler' drainage problem that factory management had not been able to solve for over 10 years.	Employee Safety, Food Safety	Internal operations
Web Design	*2013*	Inventing "cognitive sandboxing" technique for 3D design & AI. Resolving the ("spatial thinking" conversion to 2D) challenge. See #5 here: https://davehuer.com/solving-wicked-problems/	Artificial Intelligence, Machine-learning	Computing
Operations	2013	Thanked by managers for changing their retail operation's team culture from toxic to positive, in only six (6) months.	M&A ROI	Retail Operations
Business Dev, Marketing & Operations	2010-2012	Unearthing serious product violation affecting continuity of business.	Business continuity	US, Canada, Europe
		Eliminating 6-year-old ¼ cm flaw when product threatened customer travelling in the Arctic alone. Co-tracing flaw to 15-year-old decision to use paper patterns for commercial patterns for all products - creating the same flaw across all products.		US, Canada, Europe
		Introducing natsec product into Europe **without $thousands in approvals.**		Europe & UK
		Cutting 20-40% of Air Freight Costs **by shipping *French* mail from Canada!**		Europe & UK
		Cutting order stages by > 50%; entry time cut 75%; slashing returns 50%		Cashflows
M&A, Enterprise	2009-2010	Hired to analyze merge of two databases to determine if it was a 100% merge. In 1 week, determining that teams had achieved 97%.	Database merge processing method	M&A
Operations, Enterprise	2008-2009	Reconciling $millions during first 2-months of new duties: Finding and correcting root cause of two tiny 5-year-old data flaws by **noticing a 5-zero pattern shift** over the first cycle—first to deliver reports accurate & early.	Enterprise scale cashflow	Public spending
Start-up Capital Patents	2007	**Cutting $millions off capital requirements:** developing patentable 2-stage distilling process, when analyzing remotely located "cedar oil" venture.	Mobile Processing	Essential Oils
Operations & Finance, Fintech	2007	Royal Roads Univ: Developing Quality Driven Budgeting (QTBLA) and FinQM financials tool - influencing professional auditing practice across North America.	Auditing, Investor & M&A Forensics	Investors, M&A
Pilot Jinking	2006-2008	Using my visualization skills, kayaking expertise, and a tiny clue, showed top-10 whitewater slalom Olympian how to change the tiny nuances of how he paddles to improve performance. When Olympic results are measured in 1,000th's of a second, tiny changes offer the opportunity to produce dramatic results.	Slalom Athletic Competitions, Pilot Jinking	Athletes + All piloted high-speed vehicles
Operations, Database	2006	Physically transcribing written tool and parts' dimensions from 8-point font into Excel spreadsheets. On a hunch, experimenting with non-confidential data at home one weekend, cutting 72% off forecasted remaining labour cost.	Optical-Character-Recognition (OCR)	Data Processing
Operations	2004	Cutting cash-handling system repair turns from 7 to 2 days.	P&E Finance	Cashflow
Finance	2004	BCIT: Inventing new Inventory ratio (surprised instructor - 20 years in aerospace).	Churn Finance	Global
Operations, Engineering	2000	Unearthing three hidden root causes contributing to serious accident during forensic analysis of meltdown of $1m factory asset and near-fire.	Internal Operations	Insurance

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Operations, Engineering	**1999**	Designing displays for 1905 CNE heritage building. Solving 3D staging problem over one week by altering method of staging around a pillar, after all engineers gave up—Cutting 12% off $25,000 budget/avoiding months of new approvals from 4-tiers of regulators. Thanked for solving this complex problem.	3D Scaffolding	Internal Operations
Greenfield Go-to-Market Discovery Customer Coaching	**1999** **1996?**	Humber College: Senior Studio Project kept and used by faculty to teach 'uncharted market discovery' to succeeding 'graduating year' classes. Intellectually computing orbital dynamics and liquid membranes to teach a severely disabled boy to roll a whitewater kayak after national athletes and coaches gave up. Successfully taught the boy to roll himself in about 15 min. Seeing that boy grin in triumph up to his dad - the best experience of my life!	(became Razor sports monitor) Kayaking is taught one way. Athletes could not change their style.	Sports Teams Sports Teams
Science	**1995-1996**	**High School Refresher Courses before Industrial Design School** a) *Physics:* Nuclear ignition paper locked in safe by teacher (PhD physics). b) *Chemistry:* Created novel electrolysis processing method. c) *Machine Shop:* Created "impossible" 7-sided part using hex (6) machine.	Industrial process Industrial process Industrial process	Sequencing Energy Machining
Public agency processes	**1993-1994**	**Intern in Landscape Architecture office at regional government** a) *Annual Master Map revision:* Cut time from 6 months down to 1 week. b) *Writing my first software program:* [Tabulate age, conditions, and annual inspection data results of all of city's planted trees. Considered impossible to write. But my program worked. The first time.].	Operations/Safety City's natural assets	Government Parks & Recreation, Forest Assets
First experience of Data Cascades	**Mid-1980s**	Correctly re-dating an historic building to 1855-56: after wracking my brain while looking at 8 months of data, and having a niggling thought that the building was from the mid-1850s (not 1858-59), dreaming the data cascading back to a specific primary document (year, record type, sub-type) that must be located in one of eight archives visited in the region. The archivist showed me un-catalogued stack of mid-19th C records donated 30 years previously, stored in the sub-basement of a nearby storage building, and we found the document in ~15min.	First provable accurate dating of Heritage building	Local history
Much Earlier	**Age 5**	Correcting my father's tax arithmetic.		