(949) 439-9939 <u>Tim@TimLaneDesign.com</u>

## Tim Lane MPhil, BEng(hons)

## **Career History**

2011-	Principal		
present	DIRTBAGGIES	Irvine, CA, USA	
	<ul> <li>Responsible for all aspects of business: product design and development, management, marketing, sales force management, accounting, intellectua</li> <li>Wrote and applied for international utility patents.</li> </ul>	l property.	
	<ul> <li>Products are recognized as "truly innovative" and received highest praise</li> </ul>	in the media.	
2010-	Design and Engineering Consultant		
present	TIM LANE DESIGN	Irvine, CA, USA	
	<ul> <li>Provide mechanical engineering consulting and contract design services.</li> </ul>		
2003-2010	Design Engineer		
	FELT RACING LLC	Irvine, CA, USA	
	<ul> <li>Designed and engineered bicycle frames and components for all bicycle n from flagship triathlon racing bikes to lifestyle fashion cruisers, using Pro/E</li> </ul>		
	<ul> <li>Received Red-Dot International Design Prize for outstanding product design</li> </ul>		
	<ul> <li>Selected for the International Design Award of the Federal Republic of Ge</li> </ul>		
	nominations are selected from all industries.		
	<ul> <li>Developed new technologies; wrote and secured multiple patents (7,571,9 7,614,634; 7,775,331; 8,356,828; 7,946,605; 7,963,540; 7,976,045; 8,079,</li> </ul>		
	<ul> <li>Designed for manufacture using processes ranging from hand laid carbon</li> </ul>		
	machined parts and welded hydro-form sheet metal assembly.		
	<ul> <li>Wrote, directed and contributed to production of catalogs, manuals, techni literature and video sales material.</li> </ul>	ical sales	
	<ul> <li>Attended industry events as technical liaison to pro-athletes, press, dealer</li> </ul>	s, and	
	consumers. In these videos I can be seen presenting some of my designs.		
	http://www.youtube.com/playlist?list=FL8LSCpL-ltWGnXDgURNQC5w		
	<ul> <li>Collaborated with 3<sup>rd</sup> party suppliers to develop new components, process component quality.</li> </ul>	es and improve	
	<ul> <li>Fabricated prototypes for ride testing and trade show presentation.</li> </ul>		
2001-2002	Project Engineer		
		a Mesa, CA, USA	
	<ul> <li>Designed, constructed and tested new piezoelectric dynamic pressure sensor, to monitor flame noise in dry-low-NO<sub>x</sub> type power generation gas turbines.</li> </ul>		
	<ul> <li>Designed and certified pressure transducers for the Astrium Eurostar3000</li> </ul>	satellite and for	
	<ul> <li>the International Space Station ATV (Automated Transport Vehicle).</li> <li>Developed and tested charge amplifiers to interface piezoelectric devices</li> </ul>	to data	
	acquisition equipment.	10 0010	
	<ul> <li>Designed 3D interface for GP7200 flight accelerometer used on the Airbus</li> </ul>		
	<ul> <li>Prepared technical proposals for CF34-10 flight accelerometer, and Moog propulsion system pressure transducer.</li> </ul>	spacecraft	
	<ul> <li>Provided engineering support to improve thin film pressure products with S initiatives.</li> </ul>	Six Sigma	

## **Tim Lane**

1999-2000	<ul> <li>KESTREL SERVICES 2000 LIMITED (through UW Swansea)</li> <li>Researched new technology addressing supply, mixing and disper coatings; to eliminate losses estimated at \$10billion per year.</li> <li>Devised and performed CFD simulations for pulsating, non-Newton</li> <li>Designed, constructed and conducted physical tests of prototype je</li> <li>Planned further research, testing regimes, and future process prototype</li> </ul>	nian, turbulent flows. et mixing devices.
	<ul> <li>CFD Consultant</li> <li>CONSULTATION FOR THE ENERGY GROUP, UNIVERSITY OF READING</li> <li>Analysis of hydraulic flow through conical, full admission Turgo inletturbine applications.</li> </ul>	Swansea, Wales, UK ets for low head impulse
1999	<ul> <li>CFD Consultant</li> <li>CONSULTATION FOR SUSTAINABLE ENERGY LIMITED</li> <li>Assessment of flow around a Savonius water turbine for use in a till</li> </ul>	Swansea, Wales, UK idal river estuary.
1997-1999		ele industry). g work quality, prkshop service.
Education		
1999-2001	<ul> <li>Master of Philosophy in Mechanical Engineering         <ul> <li><u>UNIVERSITY OF WALES SWANSEA</u></li> <li>Research Thesis: Jet Mixing of Non-Newtonian Fluids in a Cuboid process investigation by numerical modeling and experiment.</li> </ul> </li> </ul>	Swansea, Wales, UK Container; Industrial
1993-1997	Bachelor of Engineering with Honors in Mechanical Engineering         UNIVERSITY OF WALES SWANSEA         • IMechE Accredited Degree Program (UK equivalent of ASME)         STATE UNIVERSITY OF NEW YORK AT BUFFALO         • Year of ASME accredited undergraduate study in USA	Swansea, Wales, UK Buffalo, NY, USA
1992-1993		
Computer		
Compator	Skills	
<u>computer</u>	Skills CAD/CAM/CAE: • Over 12 years 3D CAD, surfacing and solid modeling experience u • Experienced in AutoCAD, SolidWorks; CFD modeling in StarCD, F Modeling in Pro/MECHANICA, COSMOS/Works • Taught drafting, AutoCAD, Pro/ENGINEER General:	