

## **CARR ENGINEERING, INC.**

12500 CASTLEBRIDGE DRIVE HOUSTON, TEXAS 77065-4532

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### **STEVEN E. KENT**

#### **Specialized Professional Competence**

- Vehicle Testing and Instrumentation – data acquisition system hardware and software development, test data analysis, evaluation and implementation of new test instruments and test-driving.
- Supplemental Restraints - airbag electrical system analysis; airbag data downloads and analysis
- Crash Analysis and Reconstruction – PC-Crash simulation analysis; computer-aided crash analysis including EDCrash, EDSmac; exemplar vehicle analysis; speed analysis; rollover analysis.
- Vehicle Dynamics Analysis – application of physics, background knowledge and experience to the analysis and understanding of vehicle dynamics and the effect of driver, vehicle and environment on vehicle performance. Detailed data analysis utilizing software tools and custom scripting.

#### **Professional Qualifications**

- Bachelor of Science (Information Systems), University of Redlands, CA. 1995
- “Automobile Accident Reconstruction” 40 hour course, Northwestern University -2006
- “Advanced PC-Crash Training Workshop” MEA Forensic Engineers and Scientists - 2003
- Graduate Engineer, Carr Engineering, Inc. – 2002 – present  
Engineer responsible for vehicle test data, instrumentation development, vehicle testing and crash reconstruction. Activities include performing: data analysis, scene and vehicle inspections, transmission inspections, crash analysis, computer crash simulations, vehicle dynamics analysis, vehicle dynamics testing, test procedures and related programming tasks.
- Hardware Application Engineer, Hewlett Packard, Incorporated – 2001  
Responsible for ASIC design-in services to international OE manufacturers. Member of OEM inkjet hardware product development team. Duties include: circuit verification, defining power conditioning requirements, providing firmware development assistance, developing application notes and datasheets for core logic, color processing, and nozzle driver ASICs.
- Technical Services Account Engineer , Toshiba America Inc. Information Systems Div. – 1997 – 2001  
Responsible for failure analysis of mobile and server PC’s within enterprise customers. Worked with hardware product development team on pre and post release product revisions.
- Sr. Systems Engineer, Epson America, Inc. – 1988- 1997  
Responsible for chip-level verification testing of chipsets for new portable and desktop PC products. Developed hardware and software test plans and documented results. Responsible for developing scripting tools for OEM software preload.

#### **Other Related Experience**

- Developed programmable steering controller with data acquisition capability and integrated motion control functions; Stand alone, rugged-ized data acquisition hardware and software development
- Integration of CAN based sensor hardware with steering controller hardware and software
- Familiarity with CAN, serial data communications and networking - physical layer and protocols
- Developed electronics used in the construction of a throttle-by-wire and speed control court exhibit
- Responsible for specific instrumentation used in collecting transmission shift force and position data
- Developed airbag diagnostic tool hardware devices for domestic and Asian vehicle restraint systems
- Developed roll-rate feedback hardware to comply with the NHTSA Fish Hook maneuver standard
- LabView Programming, DIAdem data analysis and Matlab scripting
- Engine management (EEC) programming, data logging & analysis
- Communications power amplifier design, digital trunked radio systems
- Open-Track amateur racing and high performance driving education instructor