

Thomas Hasselbring, President



PROFESSIONAL SUMMARY

Thomas Hasselbring is a degreed electrical engineer with significant experience in the design and implementation of AFC systems, together with a broad range of experience in radar and communications systems. He has considerable direct hands-on experience in design and project management of real time data collection and control systems. He has an understanding of and is familiar with all of the aspects of running a company involved in the design and development of real time processing systems.

TECHNICAL AND MANAGEMENT SKILLS

Engineering project management including all phases of the engineering design process from initial design through final system acceptance testing and documentation.

Real time digital equipment design encompassing a variety of microprocessors and microcontrollers as well as the latest advances in programmable logic devices.

Digital system design incorporating a variety of sensors and communications systems into a real time data collection and reporting system.

Real time software design and implementation

He is an experienced software engineer and has written C/C++ applications for a variety of platforms and operating systems including Linux, LinuxWorks, Lynx, C-Executive, and Win32 environments.

EDUCATION

Bachelor of Science, Electrical Engineering - Cal State University Northridge - 1987

RELATIVE EXPERIENCE

2008 to Present: **Transport Data Systems**
President and Chief Executive Officer

In 2008 he took over the position of president of Transport Data Systems.

1998 - 2008: **Transport Data Systems** – Director of Engineering

He has been actively involved in the TDS development effort since its inception in 1995. He has been instrumental in the hardware and software design and development of all TDS products. During this period he worked extensively on the EZ Pass system implementation for the New Jersey Turnpike and Garden State Parkway toll roads. He was responsible for the design and implementation of the Automatic Vehicle Classification system, for the Violation Enforcement System, and for the integration of these systems into the Lane Controller application. He was involved in installation support and system acceptance testing on both roads.

He was involved in the design of the Delaware DOT Biddles Corner high speed ORT lanes. He was responsible for the integration, installation and testing of the Overhead Laser Scanner which was integrated into the prime contractor's toll system. The Overhead Laser Scanner provided multi-lane vehicle tracking and camera triggering.

He was responsible for the design, implementation, and integration of the Automatic Vehicle Classification system into the prime contractor's Lane Controller for the Burlington County Bridge Commission in New Jersey.

He was responsible for the design, implementation, and testing of the Automatic Vehicle Classification system for the Kartsis Corporation's Lane Controller in Istanbul, Turkey.

He was responsible for the design, implementation, and integration of the Automatic Vehicle Classification and Image Capture system for the Hvalfjörður Tunnel Toll Plaza in Iceland. The system is comprised of both manual and ORT lanes.

1991 – 1998 **Cubic Transportation Systems** –Project Engineer

In 1991 He joined CTS located in San Diego. During those 7 years he designed real time digital equipment for use in a variety of magnetic and smart card based bus and rail fare collection systems including Sydney, New York City Transit, Chicago Transit Authority and Singapore. His responsibilities included:

- Design of ticket vendors, gates, high speed ticket encoders and sales kiosks
- Design of bus system fare boxes, garage computers, cashbox receiver vault, and money room equipment
- Factory and field acceptance testing
- Staff maintenance and repair training

In this position he oversaw the development of more than a dozen different embedded real time systems using Motorola and Intel microprocessors and microcontrollers.

OTHER EXPERIENCE

1987 - 1991 **Aydin Corporation West** - Design Engineer

He completed his college education in 1987 and joined the Aydin Systems West Division located in San Jose, California. There he worked as a design engineer on a variety of radar and communications projects. Major programs included the MUTES radar simulator program, the ARM Decoy radar simulator program and the Turkish Air Defense System. His responsibilities included field installation and system acceptance test management for these systems.