AN INTRODUCTION TO THE COMPANY

RTTS (RealTime TechSolutions) is an Embedded Computing Company, which provides end-to-end services for product realisation in the chosen market.

Founded in February 1998 by professionals with several decades of experience in the computer industry, we offer integrated embedded technology solutions to meet the needs of user groups in various fields.

Our primary business focus is on *Embedded Computing* using COTS (Commercially-Off-The-Shelf) technology. We have two main operating divisions, *System Integration* and *Software Services*, each with unique but highly complementary expertise in the development of embedded solutions. This helps us service industries as diverse as defence and aerospace, telecom and industrial automation. We take pride in possessing the ability to deliver the industry's most comprehensive range of integrated solutions, capable of operating in the most demanding environments. We also distribute and support an industry standard RTOS (Real-Time Operating System), which synergises with our integration and software services divisions.

ORGANISATION

A professionally managed company, our organisation comprises over 45 professionals, including a team of 30 engineers involved in Integration, Support and Software activities. Together, our engineering team brings in a collective experience of over 150 years in providing end-to-end solutions.

We are headquartered in Bangalore and occupy 4,000 sq ft of office space, which houses our Corporate, System Integration and Software Development functions. To provide enhanced support to our customers, we also have Sales and Support offices in Hyderabad and Delhi.

COMMITMENT

As a company, we are committed to expanding our capabilities in design, implementation, servicing and managing IT solutions in core markets to fulfill core technology requirements. In addition, we also develop the necessary hardware / software interfaces for meeting our customers' integration, performance and environment qualification requirements.

TO OUR CUSTOMERS: Our team is committed to bettering our System Integration and Software Services business by constantly improving on quality, services and time-to-market. Our wide exposure to the industry has made us sensitive to our customers' needs, so we can deliver *real value* in return for the confidence and trust they place in us.

TO OUR PARTNERS: In association with our partners, we are committed to being recognised as a *Quality Solutions Provider*, by continually improving every aspect of our System Integration business.

OUR CORPORATE OFFICE IN BANGALORE

CUSTOMERS

Public Enterprise
- Bharat Electronics
- Electronics Corporation of India

Private Enterprise
- BPL
- DELL
- Encore Technologies (S)
- HCL
- Infosys

- Kshema Technologies
- L & T
- LynuxWorks Inc.

Laboratories
- ANURAG
- CABS
- CAIR
- DRDL
- GTRE

- ISRO
- LRDE
- NSTL
- WEESEE

Educational & Research Institutes
- IISc
- IIT

CONTACT INFORMATION

Bangalore
59, Lavanya Towers, III Floor,
4th Main, 18th Cross, Malleswaram,
Bangalore 560 055, INDIA

Ph: +91-80-2344 8610/1/2/3
Fax: +91-80-5128 2499
Email: sales@rttsindia.com

Hyderabad
Maruthi Corporate Point,
217, Swapnalok Complex, S.D. Road,
Secunderabad 500 003, INDIA

Ph: +91-40-2781 1216, +91-40-5531 9898
Fax: +91-40-2781 3456
Mobile: +91-93470 70033
Email: janardhan@rttsindia.com

Delhi
366, B-8, Paryatan Vihar,
Vasundhara Enclave,
Delhi 110 096, INDIA

Fax: +91-11-2261 4017
Mobile: +91-98914 75004
Email: ashukla@rttsindia.com

www.rttsindia.com

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RTTS
Integrating Embedded Technologies

EMBEDDED COMPUTING
■ SYSTEM INTEGRATION   ■ SOFTWARE SERVICES

SYSTEM INTEGRATION

With our expertise in system design, we offer complete integration services to defence and aerospace, telecom and industrial automation customers with solutions based on COTS technologies. We offer the right hardware, systems and application software, and networking and technical support to meet high standards of functional performance and environment qualification requirements.

With configurations chosen out of COTS technology, from chassis to various subsystems including software, our customers reduce the risk of dealing with many suppliers. Our integrated systems are of high quality, cost effective and delivered on time, thereby enhancing the overall productivity of projects as customers can focus on their applications with ease and confidence.

Main Activities
- System Configuration
- Hardware and Software Integration
- Performance Improvement and Validation
- Environment Qualification
- Documentation
- Technical Support
  - Repair and Maintenance
  - Annual Maintenance Contract (AMC)
  - Programme Management
  - Obsolescence Management
  - Upgradation Services

Areas of Expertise
1. Rugged System: We configure and integrate products for high performance military and ruggedised COTS applications like air-cooled and conduction-cooled systems based on PowerPC and Intel technologies for ships, tanks, tracked vehicles and aircrafts. These systems meet stringent field environment requirements as prescribed in MIL-STD-810E and EMI / EMC per MIL-STD-461D.

2. Displays: We provide a range of display subsystems for radar and graphic displays for command and control applications. These subsystems provide solutions for the entire chain of display management, including radar signal acquisition, radar scan conversion, plot tracking, high resolution graphics generation, graphics underlay / overlay, video windowing, video distribution and video recording / playback. The display subsystems are available based on various form factors like VME/cPCI/PCI. In this area we partner with Curtiss-Wright Controls Inc., Embedded Computing–Cambridge Business Group (formerly known as Primagraphics Ltd).

3. Cluster Computing: We focus extensively on solving our customers' real-world High Performance Computing (HPC) challenges. For nearly seven years, we have delivered HPC excellence—blending the price and performance advantage of Linux-based clusters with real-world HPC expertise and technology. We provide clusters out of Intel and other CPU architectures along with Infiniband or other Interconnect technologies. We offer a range of Linux cluster computing to meet a variety of customer needs.

Products and Services
- RADAR / SONAR Video Display Integration
- Command and Control Systems
- Video Trackers
- Display Systems
- Signal Processing
- Fault Tolerance Systems
- High Performance Computing Solutions and Parallel Processing
- Embedded Computing for specific applications
- Flight Data Processing Systems

SOFTWARE SERVICES

We offer complete services in the area of system software including firmware and embedded application development under different RTOS environments. Proven quality processes designed for embedded product designs, and over 150 man-years of embedded development experience make us an ideal partner for the most challenging embedded software developments.

Main Activities
- RTOS porting
- BSP / Firmware / Driver development
- Specialised GUI development
- Compiler design
- HA (High Availability) Software development
- Application development
- Appliance development
- Software maintenance

A Few of Our Projects
1. Compiler Design: We have designed compilers based on GNU Code for a new indigenous processor. We have also carried out modifications of the entire GNU tool chain for the processor.

2. Appliances: We have developed a BOX solution for implementation of marketing plans in the retail industry. This custom BOX solution is made out of an Atmel ARM processor, and uses Embedded Linux and web technologies.

3. BSP Development: We have developed a full BSP for many SBCs (Single Board Computer).

Distribution Services: We distribute and support products of LynuxWorks, USA. LynuxWorks™, Inc. is a pioneer and a proven leader in the Embedded Systems Industry with more than 16 years experience in providing Posix based RTOS and development tools for global markets. LynuxWorks' embedded operating systems are based on open standards, and are used widely in important products made for markets like aerospace and defence systems, medical and automotive industries.

LynuxWorks has two products—Lynx and Bluecat Linux. Lynx is a Hard Real-Time Operating System (RTOS) with a 16-year track record. It combines uncompromising determinism with an open "Linux®/UNIX®-like" environment that streamlines the deployment of ultra-reliable, high performance end-solutions. Bluecat Linux provides a complete and stable Linux environment for cost-effective, low-risk embedded development.

CLUSTER
COMPUTING

CUSTOM BUILT CHASSIS

SYSTEM INTEGRATION

SINGLE BOARD COMPUTER

CORPORATE OFFICE

ENGINEERS AT WORK

Our Vision To become the market leader in Embedded Computing, with a focus on specific areas in defence, aerospace, telecom and industrial automation.

RTTS
Integrating Embedded Technologies

OUR PARTNERS

With a focus on providing one-stop-shop solutions, we partner with organisations whose products maximise our ability to integrate, install, manage and maintain successful solutions for our customers.

Altair Engineering
Altair Engineering
www.altair.com

CURTISS WRIGHT Controls Embedded Computing
Curtiss-Wright Controls Inc., Embedded Computing–Cambridge Business Group (formerly known as Primagraphics Ltd), United Kingdom
www.cwcembedded.com

GE FANUC
GE Fanuc Automation Inc., USA
www.gefanuc.com

IRTS
IRTS, France
www.irts.fr

LYNUXWORKS
LynuxWorks Inc., USA
www.lynuxworks.com

ELMA | MEKTRON
Mektron Systems Limited (an Elma Electronic Group company), United Kingdom
www.mektron.co.uk

OCTEC
Octec Limited, United Kingdom
www.octec.co.uk

PCQT
PCQT AB, Sweden
www.pcqt.se

THALES INFORMATION SYSTEMS
Thales Computers, France
www.thalescomputers.com

THEMIS
Themis Computer, USA
www.themis.com

Voltaire
Voltaire Inc., USA
www.voltaire.com