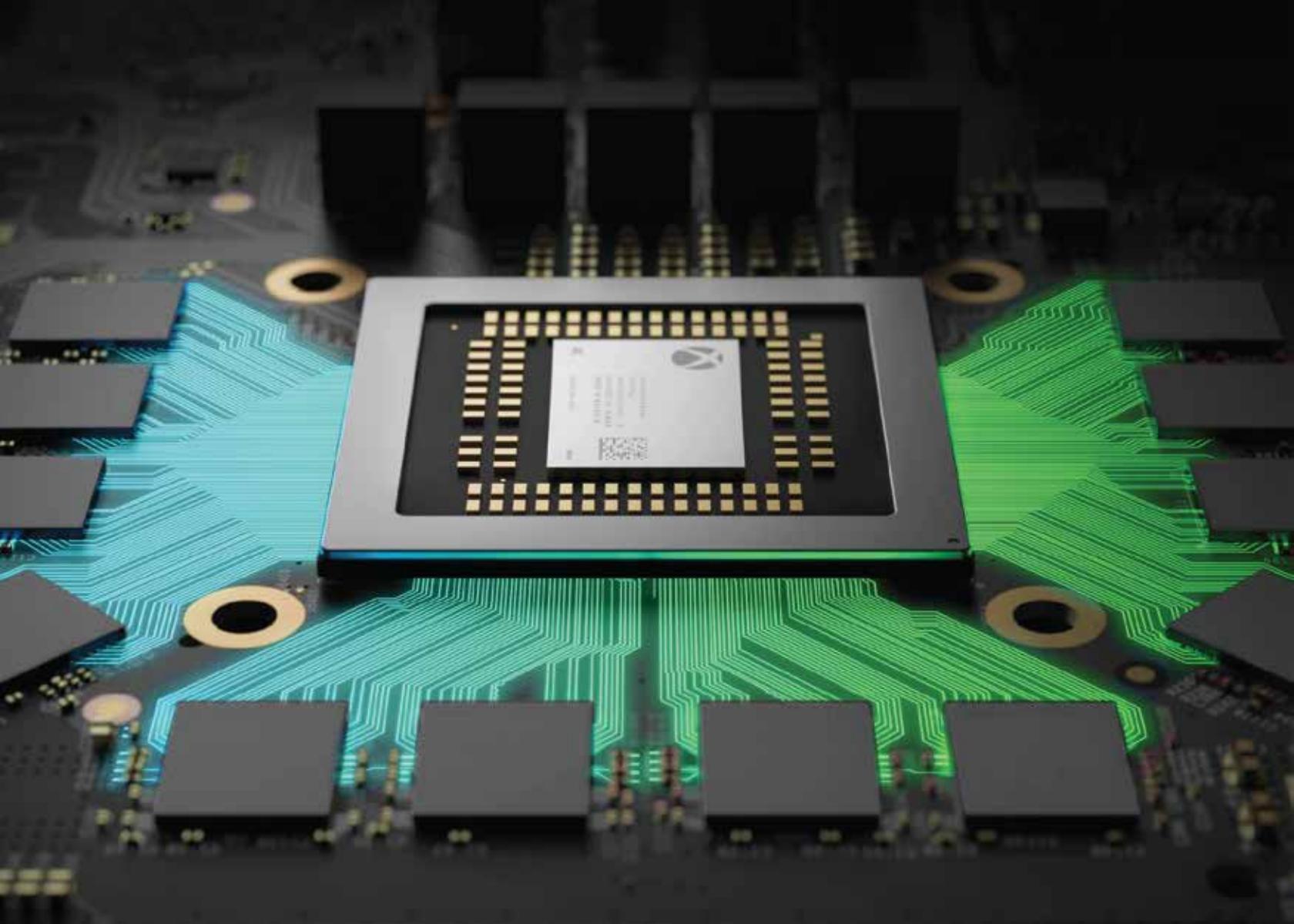




# RTOS **SIMULATOR**<sup>TM</sup> for Academic Labs

SOFTWARE TOOLS FOR SIMULATION OF  
REAL-TIME SYSTEMS

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MapuSoft's RTOS Simulator is a one-stop solution that includes world-famous RTOS platforms at a fraction of the cost. The new simulator creates a virtualized environment on standard Windows/Linux computers, thus making it far easier to use. For students, MapuSoft offers the choice of two or four popular RTOS's for the price of one.

Not only do the students develop new generation software for popular RTOS platforms, but also become more innovative. Many students who used our RTOS now have lucrative jobs in industries covering IoT, Mil-Aero, Electronics, Medical, Automotive, Telecommunication and many more.

MapuSoft also provides comprehensive product training, lab exercises, certifications, and world-class technical support.

**RAJ JOHNSON**

**President & CEO**  
**MapuSoft Technologies Inc.**  
**Mobile, Alabama, USA**



MapuSoft Technologies is a global leader in embedded software re-use and interoperability solutions. Since 2001, MapuSoft is serving its valuable customers all over the world with unique products and quality service. Keeping in mind the current academic need, MapuSoft created the RTOS Simulator product to further enhance student's embedded programming skill level and develop their career.

## CORE COMPETENCIES

ACADEMIC INNOVATION

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UNIQUE PRODUCTS

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EMBEDDED TRAINING

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CERTIFICATIONS



WE ARE DRIVEN BY CREATING EXPERIENCES



WE CREATE FUTURISTIC TECHNOLOGY



WE ALWAYS PUSH WHAT'S POSSIBLE  
TILL THE END



WE PROVIDE UP-TO-DATE TRAINING



WE LOVE CUSTOMER SATISFACTION

# MAPUSOFT BY THE NUMBERS



22

Beautiful years of achievements

750+

RTOS Simulator seats sold

301

Awarded projects through out time



298

SUCCESSFUL PROJECTS

MapuSoft has successfully completed 298 projects in more than 45 countries. It took us nearly fifteen years to write this success story. We have served a range of clients including fortune 500 companies. We are delighted to share that our success rate is more than 99%.



150

SATISFIED CLIENTS

Our clients are aware of our unique software solutions. For us, there is nothing more delightful than solving customer issues. As a standard, we always use surveys to receive critical feedback. Every now and then we get returning clients which reflect their trust in MapuSoft.



124

TESTIMONIALS RECEIVED

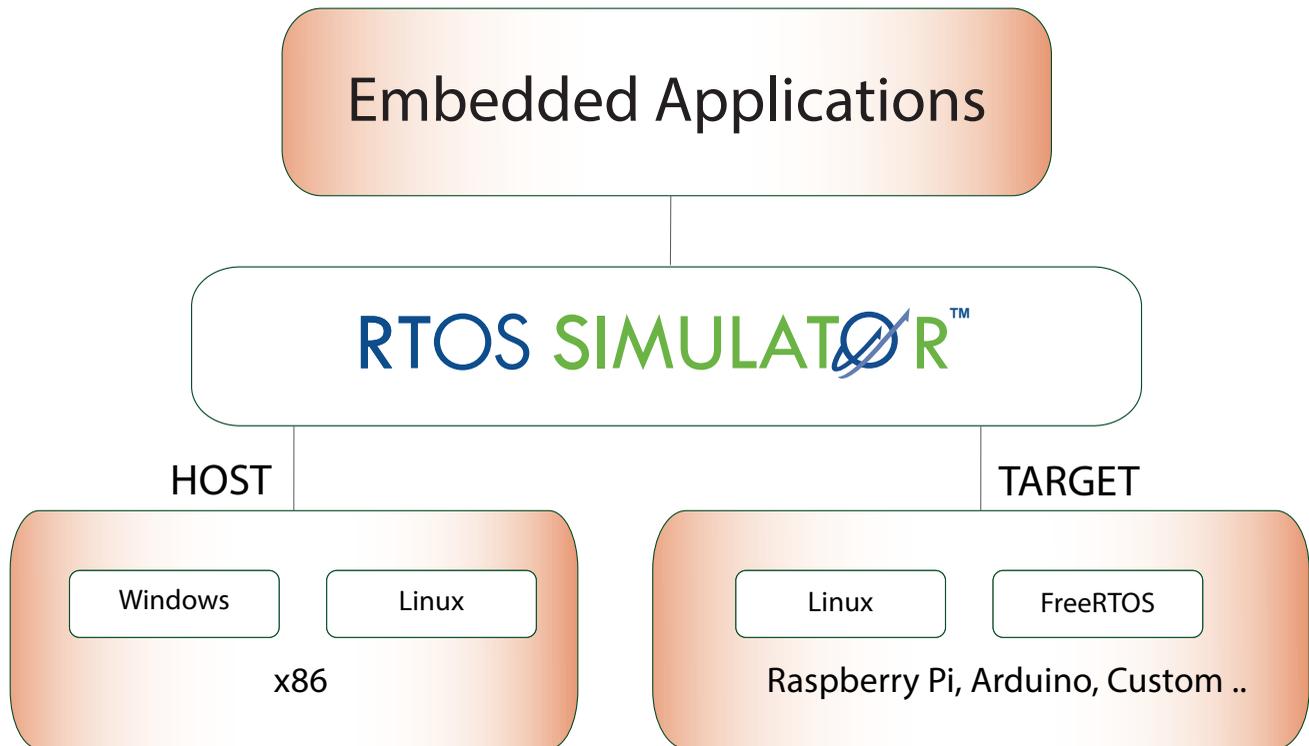
Our success highlights itself by the sheer amount of testimonials received from our clients. Majority of our customers choose to share their experience via positive endorsements. Top reviews from some of the leading MNC's are available on our website.

## OUR BEST-SELLING PRODUCTS



### Application Common Operating Environment (AppCOE)

AppCOE is a common architecture that promotes code-reuse, software interoperability and Cross-OS platform capabilities among systems and devices. It is built on the powerful open-source Eclipse framework and integrates all of MapuSoft's tools.



## TECHNICAL DATA

RTOS Simulator helps engineers develop, integrate, run, debug and test RTOS applications on Windows and Linux host platforms. The integrated development environment supports all popular and commonly used RTOS interfaces with code generation and profiling capabilities configured for different hardware such as ARM, x86, PowerPC etc.

RTOS Simulator includes GNU gcc tools for x86 host and can be configured to cross-compile for a target by integrating GNU gcc or third-party tools for the hardware. The developed applications can be deployed and run on target hardware utilizing the included specific target library components. RTOS Simulator is also integrated with the profiler so that engineers can test their applications on different hardware and can collect the data such as best, average and worst execution time.

## PROGRAM OBJECTIVES

The main objective of the RTOS Simulator program is to enhance the skill level of students. The entire program is a meticulous step by step process to generate simplified learning experience for students. The initial steps include the installation of the software followed by comprehensive on-line and on-site training for students and faculty. Students are provided with lab exercises to teach them how to create projects, develop applications and run them on host and target platforms.

Upon request from the university, MapuSoft can provide a comprehensive exam. After successful course completion, MapuSoft will provide certificates to the students. MapuSoft will also offer internships to brilliant students and may recommend them for relevant jobs within local Industry.

## ACADEMIA ADVANTAGES



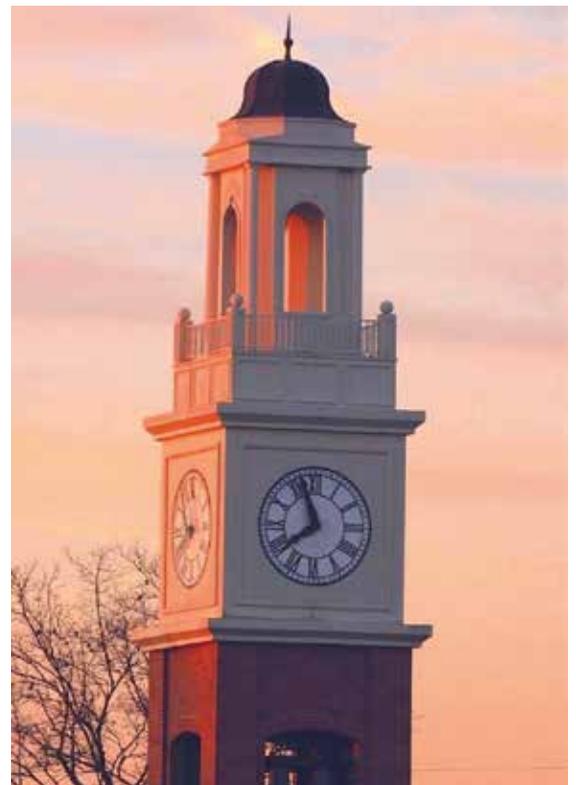
### BENEFITS TO STUDENTS

- Students acquire solid experience in embedded product development. They learn RTOSs, learn to program sensor devices, making them able to quickly develop prototype applications for Mil-aero, Automotive, IoT, Industrial and other industry sectors.
- Companies recruiting trained students with these critical skills will save time and money as they can immediately be assigned to real projects and as a result are willing to pay higher salaries to the students.
- Kit includes lab exercises, student manuals, IDE/Simulator/Compiler/Debugger/Profiler tools, sensors and target hardware (Raspberry Pi, Arduino, Cortex or custom integrations to existing hardware in the lab).
- MapuSoft provides Training/Certifications for students and faculties as part of their career development.



### BENEFITS TO UNIVERSITY

- Availability of a pool of students with embedded skills will attract more MNC product companies signing up for campus interviews.
- Increased job placement with higher pay packages with core product-based companies/MNCs will raise university rankings which results in increased student enrollments.
- Universities can easily convert their existing lab to advanced RTOS embedded labs without a large investment (no longer require expensive RTOS licenses, tools and hardware).
- Research papers can be published by faculties/researchers by collecting performance data of their work using the Application-OS Profilers provided by the kit across different RTOS and target platform.



# SOME OF OUR CUSTOMERS



# PACKAGE OPTIONS

LITE	SILVER	GOLD	PLATINUM
<b>PERPETUAL NODE-LOCKED LICENSES</b> Initially issued for 5 years and renewed for 5 more with each purchase of technical support			
5 Licenses	10 Licenses	20 Licenses	30 Licenses
<b>SELECT RTOS CHOICES FROM BELOW</b> VxWorks QNX FreeRTOS ThreadX Nucleus µC/OS Windows Linux/POSIX uITRON			
2 RTOS	2 RTOS	4 RTOS	4 RTOS
<b>FACULTY TRAINING</b> On-line sessions of 2 hours OR number of days of on-site training			
4 on-line	2 on-site	3 on-site	5 on-site
<b>INCLUDED TECHNICAL SUPPORT</b> Additional two-year support renewal cost will be 20% the current product list price. Upon renewal, new 5 year license keys will be issued and software updates will be provided			
1 year	2 years	3 years	4 years
<b>HARDWARE PACKAGES</b> Each package contains 1 Raspberry board, 1 Arduino board and pack of 5 or more IoT Sensors			
1 Package	2 Package	4 Package	6 Package
<b>LAB EXERCISES</b> Lab exercises are provided in full source-code format along with student/instructor training manuals			
RTOS	RTOS & IoT	RTOS & IoT	RTOS & IoT



# POST SALES SUPPORT



## PRODUCT INSTALLATION

The first step is the product installation on the host machines (windows or Linux). Product installation will be done based on the number of licenses and host machines.



## HANDS-ON RTOS SIMULATOR TRAINING

Training is for the faculty and students and covers the following:

- ✓ AppCOE IDE familiarization
- ✓ RTOS Programming
- ✓ Applications Development on Host and Target Hardware
- ✓ Collect Profiler Data regarding the Applications Performance



## MONITORING & TECHNICAL SUPPORT

Once the training is over and students begin using the simulator, Mapusoft will document and monitor the results. This is mainly done to ensure that the project is going in the right direction. Also, technical support is promptly provided during this period.



## RTOS CERTIFICATION STUDENTS & FACULTY

At the completion of this program, we will conduct an on-line test for the participants. Based on the test results the certificates will be issued. Furthermore, Mapusoft will present internship opportunities to students with top scores.



## JOB RECOMMENDATION

Once the entire program cycle is complete, we will recommend top students for job placements within the domestic Industry. It must be noted, that we may either offer a job at Mapusoft, or we will provide a solid recommendation in another company.



## LAB EXERCISES

Exercises for RTOS and IoT Devices

- ✓ Programming and study of RTOS in target environment
- ✓ Exercises on embedded programming using Arduino
- ✓ Exercises on programming in networking using Raspberry-Pi



# TERMS & CONDITIONS

## 01 **HARDWARE INTEGRATION & APPLICATIONS**

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Includes Raspberry Pi support packages plus Raspberry Pi board based on the package selected. MapuSoft can also integrate RTOS Simulators with available hardware in your lab at additional cost.

## 02 **PAYMENT TERMS, DELIVERY & TAX**

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A 100% upfront payment is desired. The licenses will be provided within 10 days of receiving the full payment. The listed quote doesn't include the GST, an 18% GST is applicable as per Indian Govt. norms.

## 03 **NODE LOCK LICENSES**

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Perpetual node lock licenses initially are for 5 years and comes with 2 years of support. Maintenance renewal is required to extend the node lock licenses for another 5 years. The renewal cost will be at a rate of 20 percent of the current product list price.

## 04 **TECHNICAL SUPPORT & UPDATES**

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Free product upgrade and support are included for the first two years with the initial purchase. The product is a one-time purchase and free for lifetime use, however, technical support needs to be renewed every 2 years. The renewal cost will be 20% of product list price. Upon renewal, customers will receive software updates and additional training benefits.

## 05 **SECURITY AND CONFIDENTIALITY MANAGEMENT**

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Company shall maintain security effective for protecting its sensitive data, confidential and proprietary information, IP related records, customer information and for discouraging violations of the company's IP policies on the company's computers and networks.

## 06 **PRODUCT TRAINING**

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Each package includes one-week training for faculty and students. If the customer desires more training, it is available at an additional cost.



## US Headquarters

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