Company Overview

Syncroft was founded with an aim of **"Finding Solutions for All"** in the upcoming field of RFID-Embedded-Software.

Syncroft Solutions specialises in creating innovative, versatile and enterprising customised solutions for its clients.

We continuously strive towards development of innovative and affordable products in various fields in the embedded domain.

Through our dedicated team at Syncroft involved in Hardware Design and end-to-end prototype development, we have successfully developed and delivered projects based on Micro-controllers and wireless sensing applications.

Syncroft provides versatile solutions as per the client requirements.

- End to End Solution
- Embedded Software Design
- Customized Product Development
- Product Re-engineering
- Product Upgradation Support
- Reverse Engineering

Our Embedded Team

Embedded System is an electronic system composed of microcontroller / microprocessor with program inside it to perform dedicated one or more tasks in real time or on activation of external inputs.

The motto of Our Embedded Team at Syncroft is "Where Others see a problem, we see a solution"

Our Embedded team of dedicated professional working in open-minded environment with the right exposure and experience of working in all aspects involved in the development of the embedded technology provides the client with innovative and versatile embedded designs and solutions.

Our greatest asset is our team which strives to develop a vibrant work culture at Syncroft where:

- Understanding and satisfying customer requirements is always at the forefront
- Every team member is pro-active, agile, responsible and continually develops his professional skills
- Knowledge management and upgradation is a part of every project
- New ideas and the desire to excel are encouraged

With our accomplished team, we aspire to help our customers deliver successful and effective products through a synthesis of strategy, creativity, innovative design and focused execution.

Our team expertises in

- 8-bit, 16-bit and 32-bit microcontroller based solutions;
- Communication protocols like RS232, RS485, USB, I2C, and SPI;
- Wireless sensing & tracking solutions;
- Data Acquisition Systems;
- Wireless Sensing networks;
- Redesign the obsolete and old circuits using latest technologies

Our Technologies

Embedded Hardware Development Technologies:	Portable, low power instrumentation design, RF Wireless system design, embedded microprocessor system design, C/C++, Mixed signal design (analog and digital), Printed circuit board layout.
Microcontrollers:	Intel 8051 core based, Philips XA Series, Microchip PIC Series, Atmel AVR Series, ARM core based processors, Texas MSP430 Series, Freescale 68HCS Series, Freescale ColdFire Series.
Communications:	USB, RS232, RS485, I2C, SPI.
Programming languages:	Assembly, Embedded C and C++.
Hardware interfaces:	Real time clocks (RTCs), Radio frequency (RF) wireless transmitter/receiver & transceiver, GPS modules, GSM/GPRS modules, external EEPROM, flash memory, SRAM, A/D converters, D/A converters, Temperature sensors.
User Interfaces:	Keyboard, mouse, keypads, buttons, LEDs, LCD glass interface, LCD color/monochrome modules (character and graphical), 7-segment multiplexed LED display, membrane switches, DIP switches, solenoid, relay, encoder, etc.

Embedded Development Services

Knowing the bigger picture – the critical issues faced by the clients such as time to market, value for money and just-in-time access to skilled professionals, Syncroft offers versatile services and solutions right from working on a part of the project to delivering a complete solution.

End to End Solution:

- Our flexible yet comprehensive approach allows us to step into the product lifecycle anywhere from initial product conceptualization to transfer of design to manufacturing and continuous engineering, or handle the entire product lifecycle.

- This involves designing, developing and testing of software for embedded components and systems that meet specific customer requirements.

- End to End solutions requires that coordinating all aspects right from specification, through prototype to manufacturing, testing and technical support both in terms of hardware and software.

Embedded Software Design:

- Your company may have hardware development skills and if you are looking for software development skills or due to time constraints would like to outsource the same, Syncroft will partner you in software development for the project.

- Software for embedded systems need to have a very small footprint (i.e. be able to run in a small amount of memory) and often have to work in real-time.

- When developing software for our clients, we place a lot of emphasis on architecture and design so that the software we develop is going to be efficient, scalable, fault tolerant, and easy to maintain and evolve.

- We provide sustenance engineering services, such as software maintenance and technical support services to widen product life cycles

- We ensure that designing, developing, and testing of software for embedded systems and components meet specific customer requirements.

Product Re-engineering:

- You may want to improve the performance of an existing system or change the design for scalability.

- Whatever be the reason, we can re-engineer your product by identifying bottlenecks and making optimal changes to the system.

- We also can provide system enhancements and incremental system switch over (co-existence) as an additional service as part of the overall re-engineering project.

- Product Re-engineering is achieved by:
    o Understanding the client business model
    o Listing out the existing features of the product
    o Figuring out which features need to be modified or added afresh
    o Studying the existing architecture
    o Analyzing whether the existing architecture can accommodate the required changes and/or new features
    o Re-architecting the product, as needed, towards accommodating additional features or changes
    o Testing the re-engineered product and delivering it
    o Providing maintenance services

Product Upgradation Support:

- Updating a product becomes an absolute necessity when you realize that the product you released in the market is still affected by bugs/ errors/ faults in it.

- Syncroft offers dedicated product updating services, knowing fully well how critical it is for your product to win over customers.

- In providing immaculate product updating services, we make sure that while the defects in the product are rectified, the updated end -product:
    o Is scalable, robust and flexible
    o Provides users with a painless updating process
    o Delivers better end-user experience

- Our product upgrading services take your product dynamics to the next level, and provide your customers with a product that delivers enhanced experience through a seamless collusion of technology with innovation.

- We can help you with technology upgradation and product obsolescence solutions that covers Boards and Systems redesign and support for processor, technology, bus and external interfaces

Reverse Engineering:

- Reverse engineering is the process of discovering the technological principles of a device, software or system through analysis of its structure, function and operation.

- In other words, Reverse engineering is the process of analyzing a product to determine how it was designed and how it operates.

- This information can be used:
    - To improve an existing product to surpass competitors
    - To analyze if a product is infringing on patent rights for claims analysis.
    - To generate documentation for an old product whose documentation has been lost over the time
    - To create a new device or program with the same functions without copying anything from the original.

- Reverse engineering involves examining a product to see how it operates. Then taking the product apart to determine what components are used to make it work, how they are interconnected, and how they operate together.

With proven requirements gathering methodology, we have the expertise to capture and document your requirements as well as each and every stage of development.

Our engagement model is designed around the strategy of risk mitigation.

In this model we work on projects in phases wherein the customer has the choice of committing to a subsequent phase only on successful completion of the previous phase.

Our Customers

At Syncroft, we are committed to working with our customers to enable the delivery of personalized, relevant and consistent service experiences regardless of device or location. Syncroft's strategic advantage is that our software solutions are designed to span both the handset and network layers, combining to form a flexible, end-to-end framework for service development and deployment.

Asavari Industrial Electronics

Saumit Technologies

SGI Engineers & Manufacturers

Jehangir Medical

Leap Digital, South Africa

PEPCO Health & Beauty Pvt. Ltd

Indian Army

Bombay Veterinary College

Lesaffre Feeds, France

Deloitte

and many more……….

Why Syncroft?

Optimized Implementation:

Our solutions are designed from scratch with MIPS and memory in mind. Through extensive design and code reviews, Syncroft ensures that every byte and every CPU cycle is well spent.

Extensive Documentation:

Documentation of each and every stage of the development will ensure that our staff to service your needs without wasting your valuable time.

Reliable & Easy to operate:

Our solutions are designed to be simple to ensure smoother and faster integration to customer's product, be versatile, reliable and easy to use.

Field Proven Solutions:

Our solutions are field proven in market, which has enabled our customers to succeed in their market.

Extensive Testing & Quality Assurance:

Through our extensive testing, Syncroft ensures that every product is reliable, robust and as per client's specifications and requirements

Extensive Support:

We understand that our customer's product success is critical to our success. We provide 100 days free email/telephone support after the product delivery, to aid integration to customer system go smoothly. All customer queries are typically answered within one business day.

Value for Money:

Our solutions are designed to create business values for our customer. Our customers appreciate how our technologies help them to create sustainable business values.