



Sirius Microtech LLC provides services for

- New product development
- Manufacturing and Factory Automation schemes
- Machine Controls design and development
- Man Machine Interface(MMI) design and development
- Process and work-flow improvement solutions

New product development

We have over 20 years of experience in developing new products for capital equipment manufacturing. We have developed machines with varying complexity and sizes for different industrial applications. We offer services that takes up your innovative idea and turns it into a realizable product that will position your company in a strategic advantage over your competition. In the recent past, we have developed a futuristic machine that is 6 times faster than the conventional machines and have patented 5 innovative technical solutions involved in it. We use state-of-the-art technologies and fully networked architecture for your new equipment to be capable of scaling to the future requirements. We will partner with you from the day of inception to the end of product cycle to get you the most out of the product.

Manufacturing and Factory Automation schemes

We have executed several full scale Manufacturing and Factory automation projects from ground up as well on top of existing infrastructure. In the past, we have brought up a MEMs wafer fabrication facility from ground up with required machinery, associated software tools and the processes. We have also executed a project that automated a Integrated Circuits testing facility that had various testers that were disconnected from the process and was part of a tedious manual manufacturing process. We retrofitted all those machinery and brought them to a network and centralized all the controls with adequate data collection and process flow automation. These projects involve complete understanding of the business, process and technologies that are involved. We are committed to provide full support from the concept to implementation.

Machine Controls design and development

We have great experience in developing machine controls using custom hardware and software or off-the-shelf components. We use *Microprocontrollers, Single board computers, Real Time Operating systems, PLCs, Analog processing units, high speed network controllers, Servo and stepper motor controllers, Vision systems, Electro-mechanical actuators and sensors*. We sit with our clients to discuss the technical requirements and select either a custom solution or a off-the-shelf solution based on a single most important criteria which is profit for our client.

Man Machine Interface(MMI) design and development

We provide intuitive, highly user friendly and easy to use touch screen user interfaces for machines. We take the user experience very seriously and work towards an implementation that is pleasant to use hiding all the complexities of the underlying machine. We create either custom user interfaces using .NET, C#, C, C++, *Java or browser based HMI or using third party HMI development packages such as Wonderware, Interact-X*.

Process and work-flow improvement solutions

We help clients who have an existing, legacy, complicated, manual work-flow or process implementation to upgrade to completely automated process and work-flow designs. We use innovative tools that would not cost much for our client and our implementation will be non-intrusive and will be executed without breakage of production.

Please give us a call for a free two hours to discuss your specific requirement. We will be glad to assist you.

Sirius Microtech LLC

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