

SENIOR SYSTEMS ENGINEER

Paramit is a global contract development, and manufacturing firm focused on medical devices and life sciences instruments. Headquartered in Morgan Hill, CA, we offer a rewarding work environment with global opportunities while maintaining a small company, employee-focused atmosphere. We are currently seeking a Senior Systems Engineer to join our Product Development (PD) team at our new location in Woburn, MA. Our PD team, primarily comprised of engineers who work collaboratively with customers, bring our customer's concepts to prototype, aiding in the design of their medical devices and life science instrument creations.

As our Senior Systems Engineer within Paramit's Product Development Group, you will lead design and development efforts in a broad range of areas such as mechatronics, fluidics, thermal control, optics, Chassis, and life science instrumentation controls. In this role, you will be a critical part of a cross-functional team that develops complex instrumentation for customers ranging from young start-ups to well-established companies. Projects are typically fast-paced, technically diverse, and rely on a close-knit, interdisciplinary team comprised of other Mechanical Engineers, a Technical Project Manager, Electrical Engineers, and Software/Firmware Engineers, Consumables Engineers, and Industrial Designers. These teams work with Paramit's world-class manufacturing group to seamlessly transition the products into manufacturing.

Essential Duties & Responsibilities:

- Architect products for customers, including the development of optomechanical, optofluidics, and electromechanical systems to be used in the creation of product designs
- Leading development and testing of breadboards for risk mitigation
- Converting and managing system requirement trade-offs for requirements initially received from customers, and collaboratively revised to be verifiable product requirements
- Writing requirements for subsystems, software, optical, fluidic, and others as needed
- System and subsystem-level debug
- Producing low-level engineering control software for breadboards

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- Perform root cause analysis and failure investigation
- Develop, test, validate, integrate, and implement designs
- Author and conduct verification protocols
- Responsible for reporting to the Program Manager any situation that could affect customer satisfaction, including, but not limited to, deviations from the project's current addendum, project scope, specifications, or schedule Interacts with peers and management, both within Paramit and the client company
- Presents a portion of the weekly internal and external project presentations, responsible for all technical content in the weekly presentations
- Contact with customers and third-party vendors to understand the project scope and completing Project specifications

Minimum Experience & Educational Requirements:

- 10+ years of relevant experience
- BS in engineering or science
- Excellent system development capabilities, solid capability with Solidworks or Pro-E modeling /drawing /assembly
- Ability to perform various forms of analysis, for example, FEA for fluidic, mechanical, electrical, or systems
- Experience utilizing a variety of software environments and programming languages for low-level machine control, such as LabVIEW, Mathematica, C#, C++, Python, or other equivalents
- Proficient in using and leveraging communication tools such as MS Office (Word, Excel, Project, Outlook, and PowerPoint)
- Working knowledge of engineering software, such as Solidworks or Pro/Engineer to give design presentations

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Preferred Experience & Educational Requirements:

- MS in engineering or science
- Experience in the use of Arduino, Raspberry Pi, or other similar off the shelf DIY tools
- Experience with 3D printing on Object, FDM, Stereolith, or other applicable 3D printing technologies
- Bioengineering experience

Working with Paramit, you will be at the forefront of technology and a part of making a difference in the medical device and life science instrument industries. These industries touch an immeasurable amount of people, communities, countries, and our world.

At Paramit, we are committed to excellence at every level in the organization. As a manufacturer and designer of highly complex medical devices and life science instruments, we are acutely aware of our responsibility to those who will one day use the products we make. As a result, Paramit is obsessive about doing things the right way, going beyond FDA requirements, and ensuring that every finished product is safe and reliable.