	VER 1.0	OPEN POSITION DESCRIPTION
	Active	R&D

System Integration and Testing Engineer

BACKGROUND

Healium Medical (www.healiumedical.com) is an early-stage medical device company developing transcatheter ultrasound therapeutic technology for the treatment of cardiac arrhythmias. The company's technology is multidisciplinary and consists of micro-mechanics, micro-electronics, hardware, software, and signal and image algorithm processing. The company is backed by strategic investors, has development collaborations projects with strategic partners, won 1st place at the prestigious ICI2019 Technological Innovation Competition, and was recently awarded the European Innovation Council (EIC) grant 2021.

We are seeking an experienced **System Engineer** to lead system design and development activities, connecting the dots across technologies to develop a cross-technological solution. This is an opportunity to join early in the game and take a central role within a professional and experienced team with multidisciplinary background (HW, SW, Mechanical, Algorithm).


To succeed and fit in, you must have great interpersonal skills, be a team player, very experienced & technical, hands-on engineer, completely independent, and highly organized with broad system perspective of the entire technological solution alongside attention to user needs. Be motivated and ready to spend time conducting system integration and performance testing in the lab.

YOUR RESPONSIBILITIES

- Thorough understanding of clinical procedure flow, procedure ecosystem and user needs to effectively define and design system solution
- Responsible for coherence and compliance of the system development with systems engineering principles and processes as well as Medical Devices standards.
- Lead through engagement & collaboration with cross-functional resources to develop system solution that meet product requirements
- Effectively translate Product requirement into system-level requirements and hardware, software & mechanical specifications to develop a clinically viable solution.
- Define system level tests, test fixtures, algorithm validation and test method validation tests.
- Take central role in pre-clinical studies and clinical trials' design and execution
- Document the requirements, specifications, assumptions / considerations, reviews, test procedures, test reports and traceable verification.

YOUR EDUCATION & WORK EXPERIENCE

- BSC/MSc in Electrical engineering / Biomedical Engineering or related degree
- Proven technical leadership and hands-on experience working on complex multidisciplinary projects that requires broad knowledge across mechanical, electrical and software engineering, as part of combined HW/SW systems
- Minimum 5 years' relevant post-academic experience
- Demonstrated experience with system performance improvement via data analysis, algorithm testing and system characterization.
- Capabilities in evaluating & analyzing pre-clinical / clinical data with respect to algorithms developed and effectively communicating results with relevant inter-company functions for feedback and improvements
- Experience with ISO (9001/13485), regulatory compliance standards and medical devices requirements.

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- Experience in Hazard analysis and Failure Mode and Effect analysis.
- Full proficiency troubleshooting and working with lab equipment (ex: analog sensors, oscilloscopes, function generators)
- Full proficiency in signal processing (MATLAB, Mathematica)
- Experience with designing and executing bench tests including test fixture design and test method validation.
- Experience with designing and executing animal studies
- Solid spoken and written English skills

ADVANTAGES

- Proficiency in image processing (MATLAB, Mathematica)
- Experience with regulation of Class III medical technologies and electrical safety compliance
- Physician interfacing experience in product development & animal studies design and execution
- Representative with excellent communications and presentations skills
- Collaboration experience with software groups and familiarity with embedded needs for real-time signal/image processing
- Programming language C++, C#, Python, Matlab/Mathematica or others
- IT networking experience

WHY SHOULD YOU JOIN

Join an early-stage startup competing in a billion-dollar industry and touch millions of lives by developing a unique and disruptive ultrasound-based medical device solution. You will be a major technical leader in our team responsible for the design and development of our innovative ultrasound platform. This role offers the unique opportunity to be an entrepreneur in an early-stage start-up and enjoy the capability to make a difference, influence & lead while enjoying the company's future growth and career development

SOUNDS INTERESTING? YOU BET!

Please send your CV and a short description to assafr@healiumedical.com

Assaf Rubissa

Healium Medical www.healiumedical.com