

Senior Robot Design Engineer - Cambridge, MA

The Company seeks a hands-on senior robot design engineer, with a strong track record of designing high-availability robotic mechanisms in a Six-Sigma environment, who will:

- Design aesthetically-pleasing, portable, light-weight and durable robotic prostheses and orthoses.
- Design efficient and high-reliability packaging of electronic, including battery, functions.
- In support of warranty objectives, conduct design-life analyses on metal and composite components/subsystems using static and dynamic finite-element tools.
- Build dynamic simulation models using MathWorks™ tools that can be used by others on the design team for robot control simulation.
- Prepare actionable mechanical specifications that facilitate high-coverage test of the mechanical functions.
- Conduct Highly-accelerated Life Tests (HALT) and other test-to-failure tests aimed at rooting out weak elements of the mechanical designs.
- Collaborate with other members of the design team to achieve systematic, highcoverage test of the robotic system—to include unit, sub-system, system and customer validation tests.
- Conduct design verification and design validation tests and prepare formal test reports covering same.
- Lead and manage mechanical hardware DFxx activities at the contract manufacturer.
- The successful candidate will have strong solid modeling and analysis skills preferably in a SolidWorks/CosmosWorks design environment.

The Client is a venture-backed startup that is commercializing a new generation of wearable robotic prostheses and orthoses.