Robotics Engineer

H3D, Inc. is seeking a highly motivated, self-starter with experience and expertise in robotic systems to join our technical team. This Robotics Engineer will work to integrate H3D class leading radiation imaging systems with custom designed and third-party robotic systems – we want UAVs that autonomously search indoor and outdoor spaces for radiation sources, UGVs to crawl through high dose environments to map contamination, ROVs to investigate underwater atomic testing sites, etc. A portion of this work is sponsored by government contracts and thus requires US Citizenship or Permanent Resident Status.

Qualifications: We are looking for candidates with a BS or higher in a related field, but experience and passion are far more important. The candidate should have a strong desire to build seamless integrations with third-party robots and a history of building custom payloads or full robotic systems. Candidates should also be well versed in C++ and be familiar with JavaScript; experience with mapping tools (e.g. Leaflet, Mapbox, etc.), vision systems (e.g OpenCV) and control systems will be put to use if available. Past projects with existing 3rd party drones, robots, automation systems, etc. will be very advantageous. Candidates also need to possess some basic competency in circuit design and have some simple mechanical design aptitude.

H3D radiation detectors generally leverage embedded Linux and we are dabbling in ROS; experience with the former is critical, the latter would be desirable. Candidates will be integrating with a lot of APIs and leveraging third-party SDKs – we would love to see links to candidate's git repos of fun/interesting projects and YouTube videos of personal or professional systems personally built (sorry, H3D isn't on TikTok just yet).

This will be a customer facing position therefore, it will be an asset to be an independent thinker and know when to ask for technical assistance from the larger H3D team. Good communication and organizational skills will be essential for successful internal and external interactions.

The future hire will be supported by the development team at H3D, where we have a dozen PhDs in Nuclear Engineering to help with best practices to leverage our proprietary CZT radiation detection and imaging systems. A robust electrical and mechanical engineering team will help with the finer details and execution work in these disciplines. The software team will be the go-to resource for understanding how we create our radiation overlays, existing APIs and overall architecture the future hire will work within.

Given there is no hard requirement for experience or education, compensation is highly commensurate with your abilities; the target range is $70k to $130k.

About Us: H3D commercializes CZT-based 3D radiation-imaging technologies for nuclear power plant, defense, homeland security, and medical applications. We seek to provide our customers with the highest performance and most user-friendly instruments possible. A 2011 spinout from the University of Michigan, we have twice been awarded the SPARK FastTrack award for impressive growth and have performed sponsored research for the

DoD, DoE, NIH, NIST, and others. We currently ship products to nuclear power plants and research laboratories around the world.

Please send an email to HR@h3dgamma.com with your interest and qualifications. H3D, Inc. offers an attractive benefit package that includes health insurance, paid holidays and vacation, and a competitive 401(k) plan. H3D is an equal opportunity employer. All qualified women, minorities, disabled, and veterans are encouraged to apply. Work will be based in Ann Arbor, Michigan; however, due to the COVID19 pandemic, the future hire may initially be working remotely. Visit our website at http://www.h3dgamma.com.