



A New Look at Udder Health

www.eiodiagnostics.com

EIO DIAGNOSTICS, INC (CA, TX)

POSITION: SR. SOFTWARE ENGINEER / DEVELOPER - IR AND AI (NEURAL NETWORK) MACHINE LEARNING

EIO Diagnostics provides equipment and services to help dairy farms monitor the health of their animals. EIO's first product UdderHealth® monitors the health of dairy cows. Specifically, UdderHealth® identifies early-stage mastitis infections. Mastitis is a significant animal health, quality and profitability issue in the dairy industry. The EIO Diagnostics system provides continuous automated monitoring of udder health that helps farmers reduce labor for monitoring, increase accuracy in mastitis detection, and contributing to increased milk quality and production over time.

EIO Diagnostics began when a local dairy farmer decided to find a better way to monitor udder health to reduce mastitis infections in his herd. He called a friend, and combining their expertise in software, engineering and technology development, the two built the first prototype using a thermal sensor to detect changes in the udder. Our team is dedicated to providing practical tools for farmers at all scales of production to improve the health of their animals.

POSITION RESPONSIBILITIES:

We are looking for individuals who thrive on making an impact and want the excitement of being on a team that wins. This role is a remote development position.

Responsible for developing leading edge technical projects which promote the advancement of AI, Neural networks, IR and visible image acquisition, correction and processing across all EIO product lines. This sr. software developer / engineer researches, develops, and applies advanced engineering theories, methods and research techniques in the investigation and solution of complex and advanced technical problems. Conducts investigations or tests of considerable complexity. Participates in proposal activity. Maintains and advances a high degree of specialization in a core technology area. Mentors lower-level engineers.

As a member of the core technology team, this senior development engineer will work with a team of technologists architecting and developing the next generation of EIO Diagnostics products.



POSITION BRIEF:

This position will develop and extend EIO Diagnostics IR sensing and imaging system detection systems. This AI/IR Systems Developer/Engineer will join a skilled R&D technical team designing and extending new and existing products and programs.

Specific activities include: developing product concepts and proposals; designing, building, and testing models and prototypes; transitioning prototype designs to high volume manufacturing; working with team members and customers to define requirements for deliverables; working program managers and leadership to ensure customers' needs are met.

POSITION REQUIREMENTS:

Background Requirements for this position include:

- * B.S. or above in Software Development, Engineering, Physics, or a related degree;
- * Strong experience working on the development of AI, Neural Networks, IR sensing and imaging systems;
- * Experience with Single Board Computers (Raspberry Pi, etc.). temperature sensors, network and power skill a plus.
- * Architecture and deployment of application including, Java, Java Servlets, Service side Java, Node JS, Ready JS, Python, Ruby, and typical networks IT skills

PRIMARY DUTIES:

- Provide technical guidance for a major project. Provide recommendations and advise management regarding technical approach, direction, and risk. Provide technical input to other engineers. Participate in multiple projects simultaneously.
- Perform a technology assessment through background research and investigatory experimentation. Evaluate technology alternatives. Coordinate the assessment and evaluation of emerging technologies.
- Over time, assume an architectural leadership role for products and company, and in particular, the AI/Neural network and IR subsystem, performing and sometimes coordinating complex tradeoffs involving other disciplines. Prepare detailed technical specifications for the subsystems. Be able to identify, communicate, prioritize and resolve system related issues.
- Maintain a high degree of knowledge and hands on experience in digital IR design and technology. Maintain a strong degree of knowledge and hands on experience in digital interfacing to IR devices and technologies.
- Design IR image data processing in real time. Develop detailed diagrams and perform other associated analyses. Conduct design and code reviews with the appropriate individuals.
- Debug using typical tools and necessary test equipment. Work with other engineers to integrate OS and application software. Provide technical direction where needed and work with other disciplines to validate product design and solve system level problems.



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- Release designs through configuration control into manufacturing. Provide associated documentation. Verify conformance to cost goal.
 - Play a role in capturing funded IR investigatory and evaluation programs
 - Provide significant contributions to new product development, including patents, technical papers, and presentations.
 - Promote the advancement of software engineering design capability by keeping tools current, training, and instructing lower-level engineers on a regular basis.
 - Perform other job-related duties as required.
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For more information on this and other open positions, please contact:

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