



## Embedded Software Engineer

### Description

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Sentera is a leading developer and supplier of integrated analytics and sensors for precision agriculture. Based out of Minneapolis, Minnesota, Sentera builds specialized cameras, software, analytics, and drones to capture and analyze images of farm fields, providing actionable information to agronomists, growers, and researchers.

Sentera is seeking a full-time candidate with knowledge, experience, and interest in the field of embedded software engineering. This candidate will join a team of talented and passionate engineers, working in a fast-paced environment to fulfill the technology needs of our customers.

### Duties

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- Collaborate with a team of multi-functional engineers to design, build, test, and deliver world-class remote sensing products for the precision agriculture market.
- Active involvement in all phases of the embedded software development cycle from inception to delivery to long-term support.
- Provide technical input to assist with product definition and design requirements.
- Develop embedded software to acquire sensor measurements, perform data processing, and ultimately deliver actionable data to our customers.
- Seamlessly interface with third-party APIs and protocols to extend the capability of our products.
- Define and execute design verification test plans on embedded systems.
- Accept a lead role in executing embedded software development tasks to meet technical and schedule requirements.
- Other related duties and/or projects as assigned.

### Qualifications

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- Bachelor's degree in Electrical Engineering, Computer Engineering, Computer Science, or related engineering discipline.
- Design experience with embedded microprocessors (ARM) and embedded operating systems (Linux or Android) is preferred.



- Design experience with common peripheral interfaces: UART, SPI, I2C, USB, CAN, WiFi, Bluetooth, and Ethernet.
- Experience using hardware test tools: oscilloscopes, logic analyzers, digital multimeters.
- Experience reading hardware schematics and performing design reviews.

## Skills

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### Required

- Proficient in C/C++, Java, and Python programming languages.
- Git version control.
- Knowledge of the TCP/IP networking stack and the programming of client/server software.
- Ability to manage and prioritize multiple tasks to meet project schedules.
- Strong written and verbal communication skills.
- Analytical and detail-oriented.

### Preferred

- FAA Part 107 Remote Pilot Certificate, or the ability to become certified.

## Details

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Travel: As needed to drone test sites, not to exceed 20%

Worksite location: Main Office in Richfield, MN. Applications to work remotely will not be considered.

FLSA and Job Status: Exempt, Full-Time (40+ hour work week)



## What We Offer

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Full benefit package:

- 100% employee covered medical insurance.
- Additional plan options for family medical coverage at a competitive monthly rate.
- Dental, vision, HSA, FSA, Dependent Care options available.
- 401(K) with a generous 4% company match.

Time off:

- 120 hours PTO at hire
- All U.S. federal holidays are paid time off holidays

## How to Apply

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We prefer interested candidates visit our website, [www.sentera.com/careers](http://www.sentera.com/careers) and apply within our job description listed. Directions on how to apply are shown on the job description.

No phone calls or walk-ins please.