

# Susan Stanningley

## Agricultural Engineer



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### Professional Profile

Versatile Agriculture Engineer with over 12 years of experience, specialising in precision farming techniques and sustainable land management across arable crop farms in Essex. Skilled in overseeing day-to-day operations of sizable agricultural estates, harnessing expertise in crop husbandry, soil health, and precision farming techniques. Holds a Bachelor's Degree in Agricultural Engineering, demonstrating a track record of mitigating crop spoilage and enhancing farm profitability through effective crop rotation and sustainable farming methods.

### Core Skills

- Precision Farming Technology
- Land Optimisation
- Irrigation Systems
- Crop Health Management
- Agricultural Automation
- Soil Analysis and Management

### Career Summary

Nov 2017 - Present

FarmTech Ltd, Chelmsford  
Agricultural Engineer

#### Outline

Work for a market leading agriculture consultancy based in Chelmsford, collaborating with local farmers to integrate precision farming techniques and increase crop yield.

#### Key Responsibilities

- Develop and manage the integration of precision farming technologies such as GPS-guided machinery and drone-based sensors for real-time crop monitoring and analysis
- Conduct in-depth soil analysis and interpret data to recommend and implement precise fertilisation and irrigation strategies for optimal crop health and yield
- Collaborate with agricultural scientists and agronomists to develop sustainable farming practices
- Innovate and implement irrigation systems, minimising wastage by using SMART water management
- Train and mentor junior engineers in the deployment and management of precision farming systems
- Conduct regular field assessments to monitor crop health and identify factors impacting plant growth
- Participate in industry conferences to maintain an up-to-date understanding of trends and new technologies
- Work with software developers to customise and integrate agricultural management software for efficient data analysis

#### Key Achievements

- Implemented a precision irrigation system for a 50-acre wheat farm, resulting in a 40% reduction in water usage a 25% increase in crop yield due to more efficient water distribution and soil moisture management.
- Designed and executed a crop swapping program in 2021 for 8 regional farms that reduced crop spoilage by 20% and boosted farm revenue by an average of 15% within a single harvest season.