

# Rodney Davis

**B. Eng (Agr), M.Eng, C.Dec**

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Rod commenced work with FSA Consulting in November 2004.

Since starting full-time work, Rod's focus has included sugar industry research in alternative cane harvester component designs, reviewing precision agriculture technologies for the sugar industry, undertaking red meat industry research through life cycle analysis and quantifying water and energy usage within the lot feeding sector. Rod also oversees the technical aspects of electronic data monitoring equipment including the management, maintenance and repair of automatic weather stations.



From 1995 to 2004, Rod was a research engineer with the Farming Systems group, BSES Ltd. His primary role was to conduct research in the area of machine issues associated with the growing, harvesting and transport of sugarcane including: the conceptualisation, development, trialling and commercialisation of alternative component designs, measurement of machine loadings and environmental data through the development of real-time data acquisition and monitoring systems and the development of industry harvesting best practice guidelines.

From April to November 1995, Rod was a design engineer with Feedlot Service Australia Pty Ltd. In this position he was involved in cattle feedlots with an emphasis on conceptual design, preparation of technical specifications and earthworks, computer simulation of waste management systems including drainage, waste disposal and odour generation, preparation of Quality Assurance manuals, Environmental Impact Statements and feedlot licence applications, on-farm earth dams, furrow irrigation layouts and irrigation infrastructure works including pipeline, supply and drainage channels, culverts and earthworks.

## **Extensive experience and depth of expertise in:**

- Project management.
- Sugarcane production, harvesting and harvester design.
- Mechanical component design and power hydraulic systems.
- Data acquisition systems – pressure, speed and displacement measurement.
- Automatic weather stations – maintenance, repair and management.
- Soil compaction and soil mechanical behaviour.
- Lot fed cattle production and environmental management.