Aisha Manu van Rensburg

Agricultural Engineer · Farm Water Systems

agricultural-engineer@example.test
Hastings, New Zealand

Education

BE Agricultural Engineering
Tui Ridge Technical University
2018

Projects

Orchard block retrofit
2025
Designed irrigation zones for 18 hectares. Verified the lowest-pressure points with the installer and adjusted the schedule with the grower before commissioning.

Summary

Agricultural engineer designing water distribution for orchards and mixed farms. Checks hydraulic models against field measurements and works with growers on practical maintenance and seasonal changeover.

Experience

Agricultural Engineer
Braided Creek Farm Systems
2021-06 – Present
- Prepared pump and pipe schedules for seven site designs. Compared the duty point with supplier curves and documented where field pressure checks were required.
- Compared energy use at equivalent flow before and after pump control changes. Measured a 12% reduction over matched operating periods.
- Created an irrigation handover with valve maps, filter checks and seasonal start-up tasks. Led the site walkthrough with the farm manager.

Graduate Agricultural Engineer
Pukeko Reach Engineering
2018-07 – 2021-05
- Bench-tested meters and reviewed site measurements for early-stage irrigation designs.
- Drafted water balance worksheets using grower records and identified weeks with incomplete readings.

Skills

Irrigation hydraulics · Pump selection · Field commissioning · Water balance

Languages English · Afrikaans