Belcan

Case Study

Generating industry specific algorithm
and software patents

Client Overview

This client is a construction OEM with a wide portfolio of on-road and rough terrain cranes

Challenges

- Customer was using a 3rd party Rated Capacity Limiting (RCL) which required several months of configuration and testing after final crane build
- This RCL system did not provide the differentiated features that customer needed
- RCL provider was a sole supplier and not responsive to our captive customer's needs

Outcomes Delivered

- Generated industry specific algorithm and software patents
- Decreased time to market for launching new crane models after pilot builds from months to days
- Significantly increased product sales due to product differentiation
- Industry leading service tools

Belcan Solution

- Belcan designed, developed, and tested the entire system from concept to production including post-production field support
- The development was conducted in a "clean room" environment due to IP considerations
- Belcan used the Simulink hardware interface libraries for an integrated simulation and production controls development (analog/digital I/O, NVM, CAN)
- COTS tools were used as the calibration, flashing, and service platform
- Supported all crane models in single code base

See how Belcan's integrated and adaptive engineering services can work for you.

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